

February 28, 2014

VIA U.S. MAIL AND ELECTRONIC MAIL

Ms. Dyan Whyte
Assistant Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

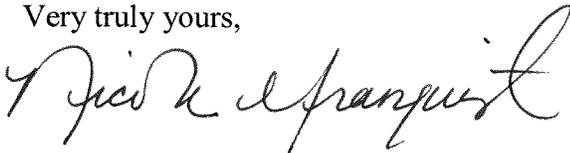
Re: *Fourth Quarter Monitoring Report – June 27, 2013 Amended Water Code section 13267 Order, Order No. R2-2013-1005-A1, Directive 7*

Dear Ms. Whyte:

Enclosed, in accordance with the Regional Water Quality Control Board, San Francisco Bay Region's, ("Regional Water Board") June 27, 2013 amended Water Code section 13267 Order, Order No. R2-2013-1005-A1, ("Order"), Lehigh Southwest Cement Company ("Lehigh") provides and encloses the enclosed 4th Quarter Monitoring Report pursuant to Directive 7 of that Order.

If you or your staff have any questions regarding the above report or enclosed documents, please do not hesitate to contact me or Greg Knapp at Lehigh.

Very truly yours,



Nicole E. Granquist

Cc: Brian Thompson, Regional Water Quality Control Board, San Francisco Bay Region
Greg Knapp, Director Environmental Region West, Lehigh
Scott Rickman, Regional Counsel, Lehigh Hanson

February 28, 2014

Project No. 063-7109-914

Ms. Dyan Whyte
Assistant Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

RE: Quarterly Report, Water Code Section 13267 Order No R2-2013-1005-A1, Order Item No. 7, Lehigh Southwest Cement Company, Permanente Facility, 24001 Stevens Creek Boulevard, Cupertino, CA.

Dear Ms. Whyte:

Golder Associates Inc. (Golder), on behalf of Lehigh Southwest Cement Company (Lehigh), has prepared this Fourth (4th) Quarter Summary Report for the Lehigh Permanente Cement Plant and Quarry (Site) located at 24001 Stevens Creek Boulevard in Santa Clara County, California. This report was prepared pursuant to Order Item No. 7 set forth in Water Code section 13267 Order No. R2-2013-1005-A1 (Order) issued by the San Francisco Bay Regional Water Quality Control Board (RWQCB) on June 27, 2013.

1.0 MONITORING REQUIREMENTS

Order Item No. 7 requires the sampling of locations specified on Table 1 below. Table 1 is derived from the Order Item No. 7 Table A.1 sample locations (additional sampling locations are included on Order Table A.1 that pertain to Order Items 8 and 11 and therefore are excluded from Table 1 below). Consistent with the Order, monitoring locations that overlap with outfalls identified in the Sand and Gravel (S&G) permit may be appropriately referenced and are not resampled for Order Item No. 7.

Table 1: Monitoring Requirements and Details

Sample Number ¹	Sample Description	Frequency	Constituents	Sampling Details
1	Downstream Sample Location	Per S&G permit; Quarterly for PP13 metals ²	S&G Permit Conventional Pollutants (CP) plus CTR PP13 total metals	Quarterly sampling occurred on 12/17/13
6	Pond 30	Per Industrial SW Permit	Industrial SW Permit plus CTR PP13 total metals	Not sampled - no discharge in 4 th quarter
10	Pond 21	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Quarterly sampling occurred on 11/20/13
11	Pond 20	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Quarterly sampling occurred on 11/20/13
12	Laboratory Parking Lot	Per Industrial SW Permit	Industrial SW Permit	Not sampled - no discharge in 4 th quarter
13	DS RW Emergency Bypass	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Emergency Bypass in 4 th quarter



Sample Number ¹	Sample Description	Frequency	Constituents	Sampling Details
14	Emergency Bypass	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 4 th quarter
15	DS RW Pond 17	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 12/17/13
17	Pond 17 Outfall	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 12/17/13
18	DS RW Dinky Shed	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Dinky Shed in 4 th quarter
19	Dinky Shed Overflow	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 4 th quarter
20	DS RW Pond 9	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 12/17/13
21	DS RW Rock Plant Sump	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Rock Plant Sump in 4 th quarter
22	Rock Plant Overflow	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 4 th quarter
23	Pond 9 Outfall	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 12/17/13
24	Pond 13 DS RW	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Ponds13A/B in 4 th quarter
27	Ponds 13 A/B	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 4 th quarter
28	DS Pond 4a, inflow to Pond 13	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - sample location was dry in 4 th quarter
29	Historic Buried Pipe	Monthly when flowing	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 4 th quarter
31	Pond 4a	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 10/30/13 and 12/17/13.
32	Background	Quarterly	S&G CP plus CTR PP13 total metals	Not sampled - sample location was dry when attempted to sample on 12/17/13.

1: 13267 Order Table A.1 Sample Location Designation; DS = downstream, RW = receiving water

2: This sampling location is not required to be sampled per the Sand & Gravel General Permit; thus, only quarterly sampling was performed.

2.0 SAMPLING SUMMARY

The 4th Quarter Item 7 sampling results are summarized on the attached Tables 2 and 3. The laboratory analytical reports are also enclosed. Since it is not required as part of Order Item No. 7, the upstream receiving water sample locations are not summarized on Tables 2 and 3; however, the data is included in the laboratory analytical reports. Duplicate samples of the downstream sample location were collected as part of the monitoring and sampling program. Field blanks were also collected as part of the sampling events when metals were analyzed.

As part of S&G permit routine monitoring, 16 of the 21 sample locations listed on Table 1 and shown on Figure 1 are monitored and sampled. The data from the S&G permit routine monitoring for the 4th Quarter were summarized in Lehigh's 4th Quarter 2013 Self-Monitoring Report (SMR). These data are also included herein (Table 2). Seven of the sixteen S&G permit routine monitoring locations were sampled during the 4th Quarter. The other nine locations were not sampled as no discharges were noted or they were dry (Table 1).

The five locations included in Order Item No. 7 that are not covered under the S&G permit are as follows:

- Downstream (Sample Number 1)
- Pond 30 (Sample Number 6)
- Laboratory Parking Lot (Sample Number 12)
- Historic Buried Pipe (Sample Number 29)
- Background (Sample Number 32)

Golder sampled Downstream (Sample Number 1) as part of the 4th Quarter sampling. The four other non-S&G permit locations were not sampled as no discharges were noted or they were dry during the 4th Quarter (Table 1).

Monitoring and sampling were conducted in accordance to Golder's standard operating procedures. Golder measured field parameters with a Myron Ultrameter II or YSI 556 water-quality meter, HACH chlorine test kit, and a LaMotte turbidity meter. Golder followed to the extent practicable the EPA recommended "clean hands/dirty hands" sampling protocol for the collection of samples to be analyzed by EPA methods 1631 and 1638. Golder submitted the samples to Alpha Analytical Laboratories Inc. (Alpha) under proper chain of custody for laboratory analysis of the S&G conventional pollutants and CTR PP13 total metals. Alpha subcontracted with Brooks Rand Labs for select metals analyses.

3.0 CLOSING

This report has been prepared and reviewed by the undersigned.

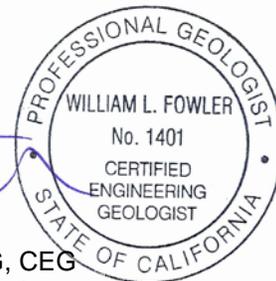
GOLDER ASSOCIATES INC.



George C. Wegmann
Senior Geologist



William L. Fowler, PG, CEG
Principal/Program Leader



cc: Greg Knapp, Lehigh Southwest Cement Company
Nicole Granquist, Downey Brand LLP

Attachments

Figure 1: Item 7 Sample Locations
Table 2: S&G Data Summary
Table 3: Metals Summary
Laboratory Analytical Reports

TABLES

Table 2: S and G Data Summary
 Order Item No. 7
 Lehigh Southwest Cement Company Permanente Plant
 4th Quarter 2013

Sample Location	Sample Description	Units Test Method	Flow Rate		Turbidity NTU Field	pH s.u. Field	Chlorine Residual mg/L Field	Temp C Field	DO mg/L Field	Chloride mg/L EPA 300.0			TSS mg/L SM2540D			Total Set Mat mL/L/hr SM2540F			TDS mg/L SM2540C			O&G mg/L EPA 1664			Hardness mg/L SM2340B			Salinity g/kg SM2520B		
			gpm	MGD						Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL
			Date	Field		Result	Result	Result	Result	Grab	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL	RL		
1	Site Downstream Sample	10/10/2013	-	-	3.94	8.05	-	16.8	8.42	140	0.75	12	9.6^	0.30	0.50	-	-	-	2000	5.0	10	-	-	-	471	1	5	8.2	2.0	2.0
	Duplicate (Downstream)	10/10/2013	-	-	-	-	-	-	-	140	0.75	12	5.7^	0.30	0.50	-	-	-	960	5.0	10	-	-	-	445	1	5	8.2	2.0	2.0
	Site Downstream Sample	12/17/2013	-	-	2.51	7.97	-	10.23	9.04	110	0.75	12	5.6	0.30	0.50	-	-	-	1300	5.0	10	-	-	-	728	1	5	ND	2.0	2.0
	Duplicate (Downstream)	12/17/2013	-	-	-	-	-	-	-	110	0.75	12	0.40	0.30	0.50	-	-	-	1300	5.0	10	-	-	-	676	1	5	ND	2.0	2.0
10	Pond 21	11/20/2013	-	-	18.9	7.56	ND	16.21	4.11	120	0.75	12	-	-	-	-	-	-	1400	5.0	10	-	-	-	724	1	5	ND	2.0	2.0
11	Pond 20	11/20/2013	30	0.043	>1000	11.56	ND	15.73	8.61	90	1.5	25	1800	0.30	0.50	10	0.20	0.20	2100	5.0	10	2.6^	0.80	1.4	-	-	-	-	-	
15	Pond 17 Downstream RW	10/1/2013	-	-	0.19	8.15	-	18.92	7.74	83^	1.5	25	-	-	-	-	-	-	1400	5.0	10	-	-	-	-	-	-	-	-	-
		10/10/2013	-	-	4.91	7.49	-	17.29	7.42	150	0.75	12	6.1^	0.30	0.50	-	-	-	760	5.0	10	-	-	-	457	1	5	8.6	2.0	2.0
		10/15/2013	-	-	2.04	7.65	-	16.80	6.72	150	0.75	12	-	-	-	-	-	-	1100	5.0	10	-	-	-	-	-	-	-	-	
		10/22/2013	-	-	2.2	7.86	-	17.1	6.31	99	0.75	12	-	-	-	-	-	-	1300	5.0	10	-	-	-	-	-	-	-	-	
		10/30/2013	-	-	1.78	7.69	-	15.51	7.11	88	0.75	12	-	-	-	-	-	-	1700	5.0	10	-	-	-	-	-	-	-	-	
		11/7/2013	-	-	1.93	7.92	-	15.91	7.10	110	0.60	10	-	-	-	-	-	-	1400	5.0	10	-	-	-	-	-	-	-	-	
		11/14/2013	-	-	6.61	7.97	-	17.42	7.20	130	0.75	12	-	-	-	-	-	-	1200	5.0	10	-	-	-	-	-	-	-	-	
		11/20/2013	-	-	4.98	7.69	-	14.65	8.48	100	0.75	12	-	-	-	-	-	-	1300	5.0	10	-	-	-	623	1	5	ND	2.0	2.0
		11/25/2013	-	-	3.58	7.59	-	12.55	8.34	100	0.75	12	-	-	-	-	-	-	1400	5.0	10	-	-	-	-	-	-	-	-	
		12/3/2013	-	-	1.09	7.38	-	13.45	5.75	110*	1.5	25	-	-	-	-	-	-	1500	5.0	10	-	-	-	-	-	-	-	-	
		12/10/2013	-	-	13.3	8.10	-	7.71	10.93	130	0.60	10	-	-	-	-	-	-	920	5.0	10	-	-	-	-	-	-	-	-	
		12/17/2013	-	-	3.45	7.70	-	9.95	8.98	110	0.75	12	0.60	0.30	0.50	-	-	-	1400	5.0	10	-	-	-	621	1	5	ND	2.0	2.0
		12/27/2013	-	-	1.07	7.37	-	11.06	6.93	99^	0.75	12	-	-	-	-	-	-	1400	5.0	10	-	-	-	-	-	-	-	-	
17	Pond 17 Discharge	10/1/2013	0.5	0.001	0.19	8.15	ND	20.12	7.10	110^	1.5	25	-	-	-	ND	0.10	0.10	1700	5.0	10	-	-	-	-	-	-	-	-	
		10/2/2013	40	0.058	3.56	8.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/3/2013	2	0.003	0.50	8.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/4/2013	2	0.003	1.22	8.16	-	-	-	-	-	-	0.40 J	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/5/2013	80	0.115	1.78	8.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/6/2013	10	0.014	0.55	8.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/7/2013	20	0.029	1.60	8.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/8/2013	5	0.007	0.83	8.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/9/2013	20	0.029	1.35	8.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/10/2013	0.25	0.000	4.37	8.04	ND	15.50	8.92	110	0.75	12	-	-	-	ND	0.10	0.10	1600*	5.0	10	1.3 J	0.80	1.4	-	-	-	-	-	
		10/11/2013	100	0.144	7.91	8.08	-	-	-	-	-	-	10^	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/12/2013	300	0.432	-	8.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/13/2013	75	0.108	5.37	8.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/14/2013	200	0.288	3.84	8.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/15/2013	100	0.144	3.00	8.09	ND	16.80	8.13	160	0.75	12	-	-	-	ND	0.10	0.10	1100	5.0	10	-	-	-	-	-	-	-	-	
		10/16/2013	60	0.086	2.01	8.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/17/2013	25	0.036	0.90	8.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		10/18/2013	50	0.072	2.81	8.13	-	-	-	-	-	-	-	2.2	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	
10/19/2013	50	0.072	1.36	8.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10/20/2013	20	0.029	1.22	7.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10/21/2013	10	0.014	3.39	7.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10/22/2013	100	0.144	2.69	8.05	ND	18.6	7.80	100	1.5	25	-	-	-	ND	0.10	0.10	1800	5.0	10	-	-	-	-	-	-	-	-			
10/23/2013	3.5	0.005	3.60	8.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

Table 3: Metals Summary
Order Item No. 7
Lehigh Southwest Cement Company Permanente Plant
4th Quarter 2013

Sample Location	Sample Number	Sample Date	Antimony (ug/L)				Arsenic (ug/L)				Beryllium (ug/L)				Calcium (mg/L)				Cadmium (ug/L)				Copper (ug/L)			
			1638				1638 DRC				1638				200.7				1638				1638			
			Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier
Downstream Location	1	12/17/13	0.346	0.011	0.042	-	0.552	0.009	0.032	-	ND	0.053	0.158	U	190	0.010	1.0	M, QM-4X	0.065	0.007	0.021	-	3.30	0.042	0.126	F
Duplicate (downstream)	1	12/17/13	0.342	0.011	0.042	-	0.580	0.009	0.032	-	ND	0.053	0.158	U	180	0.010	1.0	M, QM-4X	0.067	0.007	0.021	-	3.25	0.042	0.126	F
Pond 21	10	11/20/13	0.166	0.053	0.211	B	0.398	0.009	0.032	-	ND	0.263	0.789	U	210	0.010	1.0	M	0.038	0.037	0.105	B	2.95	0.211	0.632	F
Pond 20	11	11/20/13	1.15	0.053	0.211	-	6.12	0.237	0.789	-	0.399	0.263	0.789	B	-	-	-	-	2.49	0.037	0.105	-	48.1	0.211	0.632	F
Pond 17 DS RW	15	12/17/13	0.665	0.011	0.042	-	0.494	0.009	0.032	-	ND	0.053	0.158	U	170	0.010	1.0	M, QM-4X	0.084	0.007	0.021	-	3.11	0.042	0.126	F
Pond 17	17	12/17/13	1.21	0.011	0.042	-	0.504	0.009	0.032	-	ND	0.053	0.158	U	-	-	-	-	0.102	0.007	0.021	-	3.45	0.042	0.126	F
Pond 9 DS RW	20	12/17/13	0.334	0.011	0.042	-	0.736	0.009	0.032	-	ND	0.053	0.158	U	170	0.010	1.0	M, QM-4X	0.118	0.007	0.021	-	3.48	0.042	0.126	F
Pond 9	23	12/17/13	0.388	0.011	0.042	-	0.871	0.009	0.032	-	ND	0.053	0.158	U	-	-	-	-	0.115	0.007	0.021	-	3.37	0.042	0.126	F
Pond 4A	31	10/30/13	3.11	0.011	0.042	-	1.32	0.047	0.158	-	ND	0.053	0.158	U	-	-	-	-	1.22	0.007	0.021	-	1.72	0.042	0.126	-
	31	12/17/13	2.87	0.011	0.042	-	1.07	0.009	0.032	-	ND	0.053	0.158	U	-	-	-	-	0.373	0.007	0.021	-	2.55	0.042	0.126	F

Sample Location	Sample Number	Sample Date	Chromium (ug/L)				Hexachrome (mg/L)				Lead (ug/L)				Magnesium (mg/L)				Mercury (ng/L)				Nickel (ug/L)			
			1638 DRC				SM3500-Cr B				1638				200.7				1631E				1638 DRC			
			Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier
Downstream Location	1	12/17/13	1.05	0.395	1.18	B, Ft	ND	0.0050	0.010	-	0.085	0.006	0.026	F	60	0.0080	1.0	QM-4X	5.95	0.200	0.500	-	6.67	1.32	5.26	-
Duplicate (downstream)	1	12/17/13	1.04	0.395	1.18	B, Ft	ND	0.0050	0.010	-	0.100	0.006	0.026	F	56	0.0080	1.0	QM-4X	4.02	0.200	0.500	-	7.44	1.32	5.26	-
Pond 21	10	11/20/13	9.74	0.395	1.18	Ft	ND	0.0050	0.010	-	0.154	0.032	0.132	F	50	0.0800	1.0	QM-4X	49.6	2.00	5.00	-	3.90	1.32	5.26	B
Pond 20	11	11/20/13	188	0.395	1.18	Ft	0.11	0.0050	0.010	-	12.7	0.032	0.132	F	-	-	-	-	374	2.00	5.00	-	135	1.32	5.26	-
Pond 17 DS RW	15	12/17/13	1.01	0.395	1.18	B, Ft	ND	0.0050	0.010	-	0.038	0.006	0.026	F	47	0.0080	1.0	QM-4X	6.37	0.200	0.500	-	6.36	1.32	5.26	-
Pond 17	17	12/17/13	0.956	0.395	1.18	B, Ft	ND	0.0050	0.010	-	0.055	0.006	0.026	F	-	-	-	-	13.2	0.200	0.500	-	8.36	1.32	5.26	-
Pond 9 DS RW	20	12/17/13	2.88	0.395	1.18	Ft	ND	0.0050	0.010	-	0.105	0.006	0.026	F	56	0.0080	1.0	QM-4X	10.5	0.200	0.500	-	6.21	1.32	5.26	-
Pond 9	23	12/17/13	3.55	0.395	1.18	Ft	ND	0.0050	0.010	-	0.080	0.006	0.026	F	-	-	-	-	7.02	0.200	0.500	-	4.27	1.32	5.26	B
Pond 4A	31	10/30/13	0.652	0.079	0.237	-	-	-	-	-	0.075	0.006	0.026	-	-	-	-	-	10.4	0.200	0.500	-	16.9	0.263	1.05	-
	31	12/17/13	0.643	0.395	1.18	B, Ft	ND	0.0050	0.010	-	0.042	0.006	0.026	F	-	-	-	-	6.24	0.200	0.500	-	14.1	1.32	5.26	-

Notes:

All locations were grab samples collected via "clean hands/dirty hands" EPA sampling method

B = Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.

DS RW = downstream receiving water

F = Analyte detected above the RL in field blank.

Ft = Analyte detected at trace concentration in field blank.

M = Method blank contained trace detection of this analyte.

MDL = Method detection limit

N = Spike recovery was low and outside of acceptance criteria. Result is estimated.

ND = Not detected at or above the indicated MDL or RL.

mg/L = milligrams per liter

ng/L = nanograms per liter

QM-4X = Matrix spike or matrix spike duplicate recovery outside of QC acceptance limits.

RL = Reporting limit

U = Result is ≤ the method detection limit.

ug/L = micrograms per liter

Table 3: Metals Summary
 Order Item No. 7
 Lehigh Southwest Cement Company Permanente Plant
 4th Quarter 2013

Sample Location	Sample Number	Sample Date	Selenium (ug/L)				Silver (ug/L)				Thallium (ug/L)				Zinc (ug/L)			
			1638 DRC				1638				1638				1638			
			Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier
Downstream Location	1	12/17/13	2.35	0.021	0.063	-	ND	0.005	0.021	U	0.106	0.003	0.011	-	5.47	0.06	0.21	F
Dup	1	12/17/13	2.37	0.021	0.063	-	ND	0.005	0.021	U	0.103	0.003	0.011	-	6.07	0.06	0.21	F
Pond 21	10	11/20/13	0.915	0.099	0.296	-	ND	0.026	0.105	U	0.061	0.016	0.053	-	5.62	0.32	1.05	F
Pond 20	11	11/20/13	15.8	2.47	7.39	-	0.323	0.026	0.105	-	1.27	0.016	0.053	-	195	0.32	1.05	F
Pond 17 DS RW	15	12/17/13	4.68	0.021	0.063	-	ND	0.005	0.021	U	0.126	0.003	0.011	-	7.91	0.06	0.21	F
Pond 17	17	12/17/13	7.66	0.021	0.063	-	0.006	0.005	0.021	B	0.154	0.003	0.011	-	7.04	0.06	0.21	F
Pond 9 DS RW	20	12/17/13	3.44	0.021	0.063	-	ND	0.005	0.021	U	0.184	0.003	0.011	-	8.51	0.06	0.21	F
Pond 9	23	12/17/13	3.20	0.021	0.063	-	0.006	0.005	0.021	B	0.222	0.003	0.011	-	7.78	0.06	0.21	F
Pond 4A	31	10/30/13	29.6	0.105	0.316	-	ND	0.005	0.021	N, U	0.317	0.003	0.011	-	4.68	0.06	0.21	-
	31	12/17/13	20.4	0.021	0.063	-	ND	0.005	0.021	U	0.237	0.003	0.011	-	4.65	0.06	0.21	F

Notes:

All locations were grab samples collected via "clean hands/dirty hands" EPA sampling method

B = Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.

DS RW = downstream receiving water

F = Analyte detected above the RL in field blank.

Ft = Analyte detected at trace concentration in field blank.

M = Method blank contained trace detection of this analyte.

MDL = Method detection limit

N = Spike recovery was low and outside of acceptance criteria. Result is estimated.

ND = Not detected at or above the indicated MDL or RL.

mg/L = milligrams per liter

ng/L = nanograms per liter

QM-4X = Matrix spike or matrix spike duplicate recovery outside of QC acceptance limits.

RL = Reporting limit

U = Result is ≤ the method detection limit.

ug/L = micrograms per liter

FIGURES

Map Document: G:\GIS\Sites\Lehigh_Permanente_Quarry\Maps\SurfaceWater\WaterOrderResponse\SamplingLocations_Item7_Overview_201310.mxd / Modified 10/18/2013 2:01:02 PM by DZeiemanfahm / Exported 10/30/2013 4:34:06 PM by DZeiemanfahm



LEGEND

- Item 7 Sample Locations**
- Sand and Gravel Discharge Point
 - General Industrial Stormwater Discharge Point
 - Receiving Water Sample Location
 - Supplemental Monitoring Location
 - Permanente Creek
 - ▭ Pond

NOTES

RW = Receiving Water
 DS = Downstream

REFERENCES

- 1) Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
- 2) On site ponds, wetlands, and stream data compiled from WRA, Lehigh, and Golder Associates. Off site hydrography from USGS NHD.
- 3) Coordinate System: NAD 1983 StatePlane California III FIPS 0403 Feet



PROJECT **LEHIGH SOUTHWEST CEMENT COMPANY PERMANENTE QUARRY**

TITLE **ITEM 7 SAMPLE LOCATIONS**

	PROJECT No.	063-7109-913	FILE No.	SamplingLocations_Item7_Overview_201310.mxd
	DESIGN	DZF	10/18/2013	SCALE: 1:9,600
	GIS	DZF	10/18/2013	REV. 0
	CHECK	GW	10/18/2013	FIGURE 1
	REVIEW	XX	10/18/2013	

LABORATORY ANALYTICAL RESULTS



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

14 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J0249

Enclosed are the results of analyses for samples received by the laboratory on 10/02/13 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/14/13 13:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13J0249-01	Water	10/01/13 10:00	10/02/13 21:00
Pond 9 EFF M-002	13J0249-02	Water	10/01/13 12:00	10/02/13 21:00
Pond 9 UP R-001B	13J0249-03	Water	10/01/13 12:20	10/02/13 21:00
Pond 9 DN R-002B	13J0249-04	Water	10/01/13 12:25	10/02/13 21:00
Pond 13B EFF M-003	13J0249-05	Water	10/01/13 12:55	10/02/13 21:00
Pond 17 EFF M-004	13J0249-06	Water	10/01/13 13:45	10/02/13 21:00
Pond 17 DN R-002D	13J0249-07	Water	10/01/13 13:50	10/02/13 21:00

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/14/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/14/13 13:56

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13J0249-01) Water Sampled: 10/01/13 10:00 Received: 10/02/13 21:00											
Total Dissolved Solids	920	5.0	10		mg/l	1	AJ30721	10/07/13 10:00	10/09/13 09:00	SM2540C	
Total Settleable Solids	ND	0.20	0.20		ml/l	"	AJ30725	10/03/13 09:00	10/03/13 17:00	SM2540F	U
Pond 9 EFF M-002 (13J0249-02) Water Sampled: 10/01/13 12:00 Received: 10/02/13 21:00											
Total Dissolved Solids	1100	5.0	10		mg/l	1	AJ30721	10/07/13 10:00	10/09/13 09:00	SM2540C	
Total Settleable Solids	ND	0.20	0.20		ml/l	"	AJ30725	10/03/13 09:00	10/03/13 17:00	SM2540F	U
Pond 9 UP R-001B (13J0249-03) Water Sampled: 10/01/13 12:20 Received: 10/02/13 21:00											
Total Dissolved Solids	1400	5.0	10		mg/l	1	AJ30721	10/07/13 10:00	10/09/13 09:00	SM2540C	
Pond 9 DN R-002B (13J0249-04) Water Sampled: 10/01/13 12:25 Received: 10/02/13 21:00											
Total Dissolved Solids	1200	5.0	10		mg/l	1	AJ30721	10/07/13 10:00	10/09/13 09:00	SM2540C	
Pond 13B EFF M-003 (13J0249-05) Water Sampled: 10/01/13 12:55 Received: 10/02/13 21:00											
Total Dissolved Solids	1600	5.0	10		mg/l	1	AJ30721	10/07/13 10:00	10/09/13 09:00	SM2540C	
Total Settleable Solids	ND	0.20	0.20		ml/l	"	AJ30725	10/03/13 09:00	10/03/13 17:00	SM2540F	U
Pond 17 EFF M-004 (13J0249-06) Water Sampled: 10/01/13 13:45 Received: 10/02/13 21:00											
Total Dissolved Solids	1700	5.0	10		mg/l	1	AJ30721	10/07/13 10:00	10/09/13 09:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AJ30725	10/03/13 09:00	10/03/13 17:00	SM2540F	U
Pond 17 DN R-002D (13J0249-07) Water Sampled: 10/01/13 13:50 Received: 10/02/13 21:00											
Total Dissolved Solids	1400	5.0	10		mg/l	1	AJ30721	10/07/13 10:00	10/09/13 09:00	SM2540C	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/14/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/14/13 13:56

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13J0249-01) Water Sampled: 10/01/13 10:00 Received: 10/02/13 21:00											
Chloride	57	0.60	10		mg/l	20	AJ30419	10/07/13 15:56	10/08/13 05:41	EPA 300.0	
Pond 9 EFF M-002 (13J0249-02) Water Sampled: 10/01/13 12:00 Received: 10/02/13 21:00											
Chloride	62	0.75	12		mg/l	25	AJ30419	10/07/13 15:56	10/08/13 05:56	EPA 300.0	
Pond 9 UP R-001B (13J0249-03) Water Sampled: 10/01/13 12:20 Received: 10/02/13 21:00											
Chloride	98	1.5	25		mg/l	50	AJ30419	10/07/13 15:56	10/08/13 06:11	EPA 300.0	
Pond 9 DN R-002B (13J0249-04) Water Sampled: 10/01/13 12:25 Received: 10/02/13 21:00											
Chloride	77	1.5	25		mg/l	50	AJ30419	10/07/13 15:56	10/08/13 06:26	EPA 300.0	
Pond 13B EFF M-003 (13J0249-05) Water Sampled: 10/01/13 12:55 Received: 10/02/13 21:00											
Chloride	65	0.60	10		mg/l	20	AJ30419	10/07/13 15:56	10/08/13 06:41	EPA 300.0	
Pond 17 EFF M-004 (13J0249-06) Water Sampled: 10/01/13 13:45 Received: 10/02/13 21:00											
Chloride	110	1.5	25		mg/l	50	AJ30419	10/07/13 15:56	10/08/13 06:56	EPA 300.0	
Pond 17 DN R-002D (13J0249-07) Water Sampled: 10/01/13 13:50 Received: 10/02/13 21:00											
Chloride	83	1.5	25		mg/l	50	AJ30419	10/07/13 15:56	10/08/13 07:11	EPA 300.0	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/14/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/14/13 13:56

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ30721 - General Preparation

Blank (AJ30721-BLK1)

Prepared: 10/07/13 Analyzed: 10/09/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AJ30721-DUP1)

Source: 13J0187-01

Prepared: 10/07/13 Analyzed: 10/09/13

Total Dissolved Solids	415	5.0	10	mg/l		409			1.29	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AJ30721-DUP2)

Source: 13J0249-01

Prepared: 10/07/13 Analyzed: 10/09/13

Total Dissolved Solids	944	5.0	10	mg/l		920			2.58	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/14/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/14/13 13:56

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AJ30419 - General Preparation											
Blank (AJ30419-BLK1)					Prepared: 10/07/13 Analyzed: 10/08/13						
Chloride	0.201	0.030	0.50	mg/l							J
LCS (AJ30419-BS1)					Prepared: 10/07/13 Analyzed: 10/08/13						
Chloride	11.5	0.030	0.50	mg/l	11.1		104	90-110			
Duplicate (AJ30419-DUP1)					Source: 13J0335-01 Prepared: 10/07/13 Analyzed: 10/08/13						
Chloride	6.81	0.030	0.50	mg/l		6.86			0.819	20	
Matrix Spike (AJ30419-MS1)					Source: 13J0335-01 Prepared: 10/07/13 Analyzed: 10/08/13						
Chloride	17.5	0.060	1.0	mg/l	11.1	6.86	95.6	80-120			
Matrix Spike (AJ30419-MS2)					Source: 13J0344-05 Prepared: 10/07/13 Analyzed: 10/08/13						
Chloride	16.9	0.15	2.5	mg/l	11.1	5.52	103	80-120			
Matrix Spike Dup (AJ30419-MSD1)					Source: 13J0335-01 Prepared: 10/07/13 Analyzed: 10/08/13						
Chloride	17.4	0.060	1.0	mg/l	11.1	6.86	95.1	80-120	0.293	20	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/14/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/14/13 13:56

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/14/2013



Golder Associates CHAIN OF CUSTODY

Page 1 of 1
Quotation No. 1350249
Lehigh

PROJECT NO.: <u>06.3 7109-914</u>		SITE NAME: <u>Lehigh S46 permit</u>		ANALYSES				EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): <u>David Walter (printed)</u>		SAMPLER(S): <u>David C. Schmitt (signature)</u>		SS, TDS, Chloride TDS, Chloride					
CONTRACT LABORATORY: <u>Alpha Standard</u>		Container Info							
TURN-AROUND TIME:		Type/Vol.							
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Preserv.	Cont. Qty.	Remarks	
		Date	Time						
Pond 4 HEFF M-001		10-1-13	1000	W			1	Include J-flags	
Pond 9 EFF M-002			1200				1		
Pond 9 WP R-001B			1200				1		
Pond 9 WP R-002B			1225				1		
Pond 13 BEFF M-003			1255				1		
Pond 17 EFF M-004			1345				1		
Pond 17 DW R-002D			1350				1		

Relinquished by (signature): David C. Schmitt
 Received by (signature): [Signature]
 Relinquished by (signature): [Signature]
 Received by (signature): [Signature]
 Relinquished by (signature): [Signature]
 Received by (signature): [Signature]

Date/Time: 10-2-13 14:10
 Date/Time: 10-2-13 18:15
 Date/Time: 10-2-13 21--

SEND RESULTS TO:
 Attn: George W. [unclear] Greg Kimpff
Chow Yip
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Service Center: 6398 Dougherty Rd., Suite 3, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Client: Lehigh Southwest Cement Company

Lab ID: 13J0438-01

Sample Name: Pond 13B

Sampled: 10/4/2013 10:45

Species: Oncorhynchus mykiss - Rainbow Trout

Conditions: 2 x 5L tanks with 10 fish per tank

Aeration: No If yes (DO <6mg/L), details below:

Aerated at 100 bubbles/min, 1mm ID pipet, air pump

Tanks aerated: _____

Date/time started: _____

Date/time ended: _____

Residual Chlorine: If yes, then sodium thiosulfate was

No added to Control A also.

96 Hour Acute Toxicity Screen - Static Renewal

	Sample					Control	
	Initial	24hr	48hr	72hr	Final	Initial	Final
Hardness:	885	880	880	875	871	96	98
Alkalinity:	235	225	220	220	220	60	60
EC:	1536	-	-	-	1599	306	310

Acclimation Temp (deg C):	12
Average Length (mm):	19.3
Average Weight (g):	0.166
Hatch Date:	9/8/2013
Age (Days):	27

Date/Time:	10/5/13 11:30 Initial			10/6/13 15:00 24 Hours				10/7/13 12:30 48 Hours				10/8/13 12:30 72 Hours				10/9/13 12:30 96 Hours				TOTAL
	DO	Temp	pH	DO	Temp	pH	#M	#M												
Control A	8.8	11.1	8.2	8.9	11.5	7.8	0	7.9	11.7	7.6	0	7.8	11.7	7.6	0	7.6	11.4	7.7	0	0
Control B	8.8	11.1	8.2	9.1	11.7	7.8	0	8.0	11.7	7.6	0	7.8	11.7	7.6	0	7.7	11.4	7.7	0	0
Sample A	9.0	11.0	8.4	8.9	11.4	8.3	0	9.6	11.9	8.3	0	8.8	11.4	8.4	0	8.0	11.5	8.4	0	0
Sample B	9.0	11.0	8.4	9.3	11.3	8.3	0	9.6	11.9	8.3	0	8.9	11.4	8.4	0	8.0	11.5	8.4	0	0
Analyst:	CEF			CEF				CEF				CEF				CEF				

Results: 100% Survival Control
 100% Survival Sample

EC = conductivity in umhos/cm
 Alkalinity and hardness in mg/L
 DO = dissolved oxygen in mg/L
 Temp = temperature in degrees C
 #M = number of mortalities

Laboratory Director: _____

Theresa Lane

10-21-13

Date: 10/9/2013

Method: EPA-821-R-02-012



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 3, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Client: Lehigh Southwest Cement Company

Lab ID: 13J0438-02

Sample Name: Pond 17

Sampled: 10/4/2013 11:50

Species: Oncorhynchus mykiss - Rainbow Trout

Conditions: 2 x 5L tanks with 10 fish per tank

Aeration: No If yes (DO <6mg/L), details below:

Aerated at 100 bubbles/min, 1mm ID pipet, air pump

Tanks aerated: _____

Date/time started: _____

Date/time ended: _____

Residual Chlorine: If yes, then sodium thiosulfate was

No added to Control A also.

96 Hour Acute Toxicity Screen - Static Renewal

	Sample					Control	
	Initial	24hr	48hr	72hr	Final	Initial	Final
Hardness:	910	909	912	913	913	96	98
Alkalinity:	65	65	70	65	70	60	60
EC:	1825	-	-	-	1860	306	310

Acclimation Temp (deg C):	12
Average Length (mm):	19.3
Average Weight (g):	0.166
Hatch Date:	9/8/2013
Age (Days):	27

Date/Time:	10/5/13 11:30 Initial			10/6/13 15:00 24 Hours				10/7/13 12:30 48 Hours				10/8/13 12:30 72 Hours				10/9/13 12:30 96 Hours				TOTAL
	DO	Temp	pH	DO	Temp	pH	#M	#M												
Control A	8.8	11.1	8.2	8.9	11.5	7.8	0	7.9	11.7	7.6	0	7.8	11.7	7.6	0	7.6	11.4	7.7	0	0
Control B	8.8	11.1	8.2	9.1	11.7	7.8	0	8.0	11.7	7.6	0	7.8	11.7	7.6	0	7.7	11.4	7.7	0	0
Sample A	8.6	11.0	8.2	8.9	11.4	7.8	0	9.1	11.9	8.0	0	8.6	11.3	8.0	0	8.0	11.5	7.8	0	0
Sample B	8.6	11.0	8.2	9.2	11.5	7.8	0	9.2	11.9	8.0	0	8.8	11.3	8.1	0	7.9	11.5	7.9	0	0
Analyst:	CEF			CEF				CEF				CEF				CEF				

Results: 100% Survival Control
 100% Survival Sample

EC = conductivity in umhos/cm
 Alkalinity and hardness in mg/L
 DO = dissolved oxygen in mg/L
 Temp = temperature in degrees C
 #M = number of mortalities

Laboratory Director: *Daniel J. [Signature]* 10-21-13

Date: 10/9/2013
 Method: EPA-821-R-02-012



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

15 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J0441

Enclosed are the results of analyses for samples received by the laboratory on 10/04/13 22:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/15/13 14:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 13B Comp	13J0441-01	Water	10/04/13 10:45	10/04/13 22:00
Pond 17 Comp	13J0441-02	Water	10/04/13 11:50	10/04/13 22:00

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/15/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/15/13 14:05

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 13B Comp (13J0441-01) Water Sampled: 10/04/13 10:45 Received: 10/04/13 22:00											
Total Suspended Solids	1.0	0.30	0.50		mg/l	1	AJ30842	10/08/13 10:20	10/11/13 08:49	SM2540D	
Pond 17 Comp (13J0441-02) Water Sampled: 10/04/13 11:50 Received: 10/04/13 22:00											
Total Suspended Solids	0.40	0.30	0.50		mg/l	1	AJ30842	10/08/13 10:20	10/11/13 08:49	SM2540D	J

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/15/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/15/13 14:05

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ30842 - General Preparation

Blank (AJ30842-BLK1)

Prepared: 10/08/13 Analyzed: 10/11/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AJ30842-DUP1)

Source: 13J0337-01

Prepared: 10/08/13 Analyzed: 10/11/13

Total Suspended Solids	396	0.30	0.50	mg/l		400			1.01	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Duplicate (AJ30842-DUP2)

Source: 13J0341-02

Prepared: 10/08/13 Analyzed: 10/11/13

Total Suspended Solids	247	0.30	0.50	mg/l		260			5.29	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/15/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/15/13 14:05

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/15/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Golder Associates CHAIN OF CUSTODY

Page 1 of 1
Quotation No. 1350491
Invoice Lehigh

PROJECT NO.:		SITE NAME:		ANALYSES		EDD required?				
063-7109-914		Composite Lehigh STG permit		<div style="text-align: center;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> EDF required? <input type="checkbox"/> No </div>						
SAMPLER(S): David Walter (primed) David C. Walt (signature)		CONTAINER INFO: Alpha Standar								
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	Filter	Preserv.	Cont. Qty.	Remarks
		Date	Time							
Pond 13B Camp		10-4-13	1045	W		1L			1	Include J flags
Pond 17 Coop		10-4-13	1150	W		N			1	
Relinquished by: (signature) David C. Walt		Received by: (signature) Paul [Signature]		Date/Time: 10-4-13		SEND RESULTS TO: Attn: George Wegmann, Greg Knapp Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224				
Relinquished by: (signature) [Signature]		Received by: (signature) R. [Signature]		Date/Time: 10-4-13 1915						
Relinquished by: (signature) [Signature]		Received by: (signature) ABC [Signature]		Date/Time: 10-4-13 2000						



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

17 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J0524

Enclosed are the results of analyses for samples received by the laboratory on 10/07/13 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

CHEMICAL EXAMINATION REPORT

Page 1 of 4

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Chow Yip

Report Date: 10/17/13 14:12
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13J0524	10/07/2013 21:40	SEL HANSONCUP	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 Comp	13J0524-01	Water	10/05/13 08:50	10/07/13 21:40
Pond 9 Comp	13J0524-02	Water	10/05/13 09:30	10/07/13 21:40

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce Gove
Laboratory Director

10/17/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

CHEMICAL EXAMINATION REPORT

Page 2 of 4

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Chow Yip

Report Date: 10/17/13 14:12
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13J0524	10/07/2013 21:40	SEL HANSONCUP	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Pond 4 Comp (13J0524-01)			Sample Type: Water			Sampled: 10/05/13 08:50		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AJ30842	10/08/13 10:20	10/11/13 08:49	1	3.0 mg/l	0.50	
Pond 9 Comp (13J0524-02)			Sample Type: Water			Sampled: 10/05/13 09:30		
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Suspended Solids	SM2540D	AJ30842	10/08/13 10:20	10/11/13 08:49	1	14 mg/l	0.50	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce Gove
Laboratory Director

10/17/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

CHEMICAL EXAMINATION REPORT

Page 3 of 4

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Chow Yip

Report Date: 10/17/13 14:12
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13J0524	10/07/2013 21:40	SEL HANSONCUP	

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AJ30842 - General Preparation										
Blank (AJ30842-BLK1)				Prepared: 10/08/13 Analyzed: 10/11/13						
Total Suspended Solids	ND	0.50	mg/l							U
Duplicate (AJ30842-DUP1)				Source: 13J0337-01 Prepared: 10/08/13 Analyzed: 10/11/13						
Total Suspended Solids	396	0.50	mg/l		400			1.01	30	
Duplicate (AJ30842-DUP2)				Source: 13J0341-02 Prepared: 10/08/13 Analyzed: 10/11/13						
Total Suspended Solids	247	0.50	mg/l		260			5.29	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce Gove
Laboratory Director

10/17/2013



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

CHEMICAL EXAMINATION REPORT

Page 4 of 4

Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT
Dallas, TX 75266-0140
Attn: Chow Yip

Report Date: 10/17/13 14:12
Project No: 063-7109-914
Project ID: Lehigh S & G Permit

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13J0524	10/07/2013 21:40	SEL HANSONCUP	

Notes and Definitions

- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce Gove
Laboratory Director

10/17/2013



Golder Associates CHAIN OF CUSTODY

1370524

Page 1 of 1

Quotation No.

PROJECT NO.: 0637109-714		SITE NAME: Lehigh SEG Permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): J. SHARKEY (printed)		Collection Date/Time: 10/5/13 08:30 W		Container Info: 55 (Computer)		EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CONTRACT LABORATORY: Alpha Standard		Collection Date/Time: 10/5/13 09:30 W		Type/Vol. Filter Preserv. 1 L		Cont. Qty. 1	
TURN-AROUND TIME:		Matrix Depth		Remarks		2	
Requested by (signature): [Signature]		Received by (signature): [Signature]		Date/Time: 10-7-13 1310		SEND RESULTS TO: Attn: George Hoggan, Greg Knapp's Chw tip Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	
Requested by (signature): [Signature]		Received by (signature): [Signature]		Date/Time: 10-7-13 1900			
Requested by (signature): [Signature]		Received by (signature): [Signature]		Date/Time: 10-7-13 500			



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

24 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J0875

Enclosed are the results of analyses for samples received by the laboratory on 10/10/13 22:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/24/13 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13J0875-01	Water	10/10/13 10:20	10/10/13 22:40
Pond 9 EFF M-002	13J0875-02	Water	10/10/13 12:20	10/10/13 22:40
Pond 9 UP R-001B	13J0875-03	Water	10/10/13 12:30	10/10/13 22:40
Pond 9 DN R-002B	13J0875-04	Water	10/10/13 12:35	10/10/13 22:40
Pond 13B EFF M-003	13J0875-05	Water	10/10/13 11:15	10/10/13 22:40
Pond 17 EFF M-004	13J0875-06	Water	10/10/13 13:00	10/10/13 22:40
Pond 17 DN R-002D	13J0875-07	Water	10/10/13 13:15	10/10/13 22:40
Downstream	13J0875-08	Water	10/10/13 14:00	10/10/13 22:40
Duplicate	13J0875-09	Water	10/10/13 14:15	10/10/13 22:40

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/24/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140
Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
10/24/13 16:30

Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 UP R-001B (13J0875-03) Water Sampled: 10/10/13 12:30 Received: 10/10/13 22:40											
Calcium	260	0.010	1.0		mg/l	1	AJ31432	10/14/13 11:11	10/15/13 13:56	EPA 200.7	
Magnesium	78	0.0080	1.0		"	"	"	"	"	"	
Pond 9 DN R-002B (13J0875-04) Water Sampled: 10/10/13 12:35 Received: 10/10/13 22:40											
Calcium	120	0.010	1.0		mg/l	1	AJ31432	10/14/13 11:11	10/15/13 14:01	EPA 200.7	
Magnesium	31	0.0080	1.0		"	"	"	"	"	"	
Pond 17 DN R-002D (13J0875-07) Water Sampled: 10/10/13 13:15 Received: 10/10/13 22:40											
Calcium	120	0.010	1.0		mg/l	1	AJ31432	10/14/13 11:11	10/15/13 14:05	EPA 200.7	
Magnesium	38	0.0080	1.0		"	"	"	"	"	"	
Downstream (13J0875-08) Water Sampled: 10/10/13 14:00 Received: 10/10/13 22:40											
Calcium	130	0.010	1.0		mg/l	1	AJ31432	10/14/13 11:11	10/15/13 14:10	EPA 200.7	
Magnesium	38	0.0080	1.0		"	"	"	"	"	"	
Duplicate (13J0875-09) Water Sampled: 10/10/13 14:15 Received: 10/10/13 22:40											
Calcium	120	0.010	1.0		mg/l	1	AJ31432	10/14/13 11:11	10/15/13 14:15	EPA 200.7	
Magnesium	37	0.0080	1.0		"	"	"	"	"	"	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/24/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/24/13 16:30

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13J0875-01) Water Sampled: 10/10/13 10:20 Received: 10/10/13 22:40											
Oil & Grease (HEM)	1.4	0.80	1.4		mg/l	1	AJ31117	10/14/13 08:00	10/21/13 08:30	EPA 1664	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AJ31419	10/11/13 14:00	10/11/13 17:00	SM2540F	U
Pond 9 EFF M-002 (13J0875-02) Water Sampled: 10/10/13 12:20 Received: 10/10/13 22:40											
Oil & Grease (HEM)	1.7	0.80	1.4		mg/l	1	AJ31117	10/14/13 08:00	10/21/13 08:30	EPA 1664	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AJ31419	10/11/13 14:00	10/11/13 17:00	SM2540F	U
Pond 9 UP R-001B (13J0875-03) Water Sampled: 10/10/13 12:30 Received: 10/10/13 22:40											
Total Dissolved Solids	1400	5.0	10		mg/l	1	AJ31624	10/16/13 10:00	10/18/13 09:00	SM2540C	
Total Suspended Solids	1.0	0.30	0.50		"	"	AJ31528	10/15/13 09:15	10/17/13 11:23	SM2540D	
Hardness, Total	959	1	5		"	"	AJ31432	10/14/13 11:11	10/15/13 13:56	SM2340B	
Pond 9 DN R-002B (13J0875-04) Water Sampled: 10/10/13 12:35 Received: 10/10/13 22:40											
Total Dissolved Solids	840	5.0	10		mg/l	1	AJ31624	10/16/13 10:00	10/18/13 09:00	SM2540C	
Total Suspended Solids	9.6	0.30	0.50		"	"	AJ31528	10/15/13 09:15	10/17/13 11:23	SM2540D	
Hardness, Total	418	1	5		"	"	AJ31432	10/14/13 11:11	10/15/13 14:01	SM2340B	
Pond 13B EFF M-003 (13J0875-05) Water Sampled: 10/10/13 11:15 Received: 10/10/13 22:40											
Oil & Grease (HEM)	1.1	0.80	1.4		mg/l	1	AJ31117	10/14/13 08:00	10/21/13 08:30	EPA 1664	J
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AJ31419	10/11/13 14:00	10/11/13 17:00	SM2540F	U
Pond 17 EFF M-004 (13J0875-06) Water Sampled: 10/10/13 13:00 Received: 10/10/13 22:40											
Oil & Grease (HEM)	1.3	0.80	1.4		mg/l	1	AJ31117	10/14/13 08:00	10/21/13 08:30	EPA 1664	J
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AJ31419	10/11/13 14:00	10/11/13 17:00	SM2540F	U

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/24/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/24/13 16:30

Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 17 DN R-002D (13J0875-07) Water Sampled: 10/10/13 13:15 Received: 10/10/13 22:40											
Total Dissolved Solids	760	5.0	10		mg/l	1	AJ31624	10/16/13 10:00	10/18/13 09:00	SM2540C	
Total Suspended Solids	6.1	0.30	0.50		"	"	AJ31528	10/15/13 09:15	10/17/13 11:23	SM2540D	
Hardness, Total	457	1	5		"	"	AJ31432	10/14/13 11:11	10/15/13 14:05	SM2340B	
Downstream (13J0875-08) Water Sampled: 10/10/13 14:00 Received: 10/10/13 22:40											
Total Dissolved Solids	2000	5.0	10		mg/l	1	AJ31624	10/16/13 10:00	10/18/13 09:00	SM2540C	
Total Suspended Solids	9.6	0.30	0.50		"	"	AJ31528	10/15/13 09:15	10/17/13 11:23	SM2540D	
Hardness, Total	471	1	5		"	"	AJ31432	10/14/13 11:11	10/15/13 14:10	SM2340B	
Duplicate (13J0875-09) Water Sampled: 10/10/13 14:15 Received: 10/10/13 22:40											
Total Dissolved Solids	960	5.0	10		mg/l	1	AJ31624	10/16/13 10:00	10/18/13 09:00	SM2540C	
Total Suspended Solids	5.7	0.30	0.50		"	"	AJ31528	10/15/13 09:15	10/17/13 11:23	SM2540D	
Hardness, Total	445	1	5		"	"	AJ31432	10/14/13 11:11	10/15/13 14:15	SM2340B	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/24/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/24/13 16:30

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 UP R-001B (13J0875-03) Water Sampled: 10/10/13 12:30 Received: 10/10/13 22:40											
Chloride	90	1.5	25		mg/l	50	AJ31455	10/15/13 10:41	10/15/13 22:35	EPA 300.0	
Pond 9 DN R-002B (13J0875-04) Water Sampled: 10/10/13 12:35 Received: 10/10/13 22:40											
Chloride	160	0.75	12		mg/l	25	AJ31455	10/15/13 10:41	10/15/13 22:50	EPA 300.0	
Pond 17 DN R-002D (13J0875-07) Water Sampled: 10/10/13 13:15 Received: 10/10/13 22:40											
Chloride	150	0.75	12		mg/l	25	AJ31455	10/15/13 10:41	10/15/13 23:05	EPA 300.0	
Downstream (13J0875-08) Water Sampled: 10/10/13 14:00 Received: 10/10/13 22:40											
Chloride	140	0.75	12		mg/l	25	AJ31455	10/15/13 10:41	10/15/13 23:20	EPA 300.0	
Duplicate (13J0875-09) Water Sampled: 10/10/13 14:15 Received: 10/10/13 22:40											
Chloride	140	0.75	12		mg/l	25	AJ31455	10/15/13 10:41	10/15/13 23:35	EPA 300.0	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/24/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/24/13 16:30

Metals by EPA 200 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AJ31432 - Metals Digest											
Blank (AJ31432-BLK1)											
					Prepared: 10/14/13 Analyzed: 10/15/13						
Calcium	ND	0.010	1.0	mg/l							U
Magnesium	ND	0.0080	1.0	"							U
LCS (AJ31432-BS1)											
					Prepared: 10/14/13 Analyzed: 10/15/13						
Calcium	5.30	0.010	1.0	mg/l	6.00		88.3	85-115			
Magnesium	7.04	0.0080	1.0	"	8.00		88.0	85-115			
Duplicate (AJ31432-DUP1)											
					Source: 13J0912-01 Prepared: 10/14/13 Analyzed: 10/15/13						
Calcium	18.4	0.010	1.0	mg/l		19.1			3.59	20	
Magnesium	7.61	0.0080	1.0	"		7.57			0.459	20	
Matrix Spike (AJ31432-MS1)											
					Source: 13J0912-01 Prepared: 10/14/13 Analyzed: 10/15/13						
Calcium	24.3	0.010	1.0	mg/l	6.00	19.1	87.6	70-130			
Magnesium	14.5	0.0080	1.0	"	8.00	7.57	86.1	70-130			
Matrix Spike (AJ31432-MS2)											
					Source: 13J0850-02 Prepared: 10/14/13 Analyzed: 10/15/13						
Calcium	53.6	0.010	1.0	mg/l	6.00	47.6	100	70-130			
Magnesium	23.1	0.0080	1.0	"	8.00	14.5	109	70-130			
Matrix Spike Dup (AJ31432-MSD1)											
					Source: 13J0912-01 Prepared: 10/14/13 Analyzed: 10/15/13						
Calcium	27.1	0.010	1.0	mg/l	6.00	19.1	134	70-130	10.7	20	QM-01
Magnesium	16.2	0.0080	1.0	"	8.00	7.57	107	70-130	11.1	20	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/24/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/24/13 16:30

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ31117 - General Preparation

Blank (AJ31117-BLK1)

Prepared: 10/14/13 Analyzed: 10/21/13

Oil & Grease (HEM)	ND	0.80	1.4	mg/l							U
--------------------	----	------	-----	------	--	--	--	--	--	--	---

LCS (AJ31117-BS1)

Prepared: 10/14/13 Analyzed: 10/21/13

Oil & Grease (HEM)	39.5	0.80	1.4	mg/l	40.0		98.8	78-114		18	
--------------------	------	------	-----	------	------	--	------	--------	--	----	--

LCS Dup (AJ31117-BSD1)

Prepared: 10/14/13 Analyzed: 10/21/13

Oil & Grease (HEM)	37.9	0.80	1.4	mg/l	40.0		94.8	78-114	4.13	18	
--------------------	------	------	-----	------	------	--	------	--------	------	----	--

Matrix Spike (AJ31117-MS1)

Source: 13J0875-01

Prepared: 10/14/13 Analyzed: 10/21/13

Oil & Grease (HEM)	21.9	0.80	1.4	mg/l	20.0	1.40	102	78-114		18	
--------------------	------	------	-----	------	------	------	-----	--------	--	----	--

Batch AJ31432 - Metals Digest

Blank (AJ31432-BLK1)

Prepared: 10/14/13 Analyzed: 10/15/13

Hardness, Total	ND	1	5	mg/l							U
-----------------	----	---	---	------	--	--	--	--	--	--	---

Duplicate (AJ31432-DUP1)

Source: 13J0912-01

Prepared: 10/14/13 Analyzed: 10/15/13

Hardness, Total	77	1	5	mg/l		79			1.97	20	
-----------------	----	---	---	------	--	----	--	--	------	----	--

Batch AJ31528 - General Preparation

Blank (AJ31528-BLK1)

Prepared: 10/15/13 Analyzed: 10/17/13

Total Suspended Solids	0.400	0.30	0.50	mg/l							J
------------------------	-------	------	------	------	--	--	--	--	--	--	---

Duplicate (AJ31528-DUP1)

Source: 13J0912-01

Prepared: 10/15/13 Analyzed: 10/17/13

Total Suspended Solids	65.0	0.30	0.50	mg/l		72.5			10.9	30	
------------------------	------	------	------	------	--	------	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/24/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/24/13 16:30

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ31528 - General Preparation

Duplicate (AJ31528-DUP2)

Source: 13J0986-02

Prepared: 10/15/13 Analyzed: 10/17/13

Total Suspended Solids	118	0.30	0.50	mg/l		124			4.96	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Batch AJ31624 - General Preparation

Blank (AJ31624-BLK1)

Prepared: 10/16/13 Analyzed: 10/18/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AJ31624-DUP1)

Source: 13J1012-01

Prepared: 10/16/13 Analyzed: 10/18/13

Total Dissolved Solids	1240	5.0	10	mg/l		1240			0.00	30	
------------------------	------	-----	----	------	--	------	--	--	------	----	--

Duplicate (AJ31624-DUP2)

Source: 13J1012-02

Prepared: 10/16/13 Analyzed: 10/18/13

Total Dissolved Solids	3520	5.0	10	mg/l		3440			2.30	30	
------------------------	------	-----	----	------	--	------	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/24/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/24/13 16:30

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ31455 - General Preparation

Blank (AJ31455-BLK1)

Prepared & Analyzed: 10/15/13

Chloride	ND	0.030	0.50	mg/l							U
----------	----	-------	------	------	--	--	--	--	--	--	---

LCS (AJ31455-BS1)

Prepared & Analyzed: 10/15/13

Chloride	11.3	0.030	0.50	mg/l	11.1		102	90-110			
----------	------	-------	------	------	------	--	-----	--------	--	--	--

Duplicate (AJ31455-DUP1)

Source: 13J0769-02

Prepared: 10/15/13 Analyzed: 10/16/13

Chloride	37.6	0.15	2.5	mg/l		40.4			7.23	20	
----------	------	------	-----	------	--	------	--	--	------	----	--

Matrix Spike (AJ31455-MS1)

Source: 13J0769-02

Prepared: 10/15/13 Analyzed: 10/16/13

Chloride	49.8	0.15	2.5	mg/l	11.1	40.4	83.9	80-120			
----------	------	------	-----	------	------	------	------	--------	--	--	--

Matrix Spike Dup (AJ31455-MSD1)

Source: 13J0769-02

Prepared: 10/15/13 Analyzed: 10/16/13

Chloride	49.7	0.15	2.5	mg/l	11.1	40.4	83.8	80-120	0.0335	20	
----------	------	------	-----	------	------	------	------	--------	--------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/24/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/24/13 16:30

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/24/2013

1350875

Quotation No. Invoice Lehigh

**Golder Associates
CHAIN OF CUSTODY**



PROJECT NO.:		SITE NAME:		ANALYSES		EDD required?	
063-7109-914		Monthly Lehigh STG permit		TSS, Chloride, Hardness		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): David Walker (printed)		David Chalt (signature)		TSS, OTG, Tot Sol Mat		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CONTRACT LABORATORY:		Alpha Standard		500ml IL 16ml 500ml 500ml			
TURN-AROUND TIME:				V M N M N M		Cont. Qty.	
Sample I.D.	Lab I.D.	Collection Date	Time	Matrix	Depth	Filter	Preserv.
Pond 4A Eff m-001		10-10-13	1020	W			
Pond 9 Eff m-002			1220				
Pond 9 WE R-001B			1230				
Pond 9 DW R-002B			1235				
Pond 13B Eff m-003			1115				
Pond 17 Eff m-004			1300				
Pond 170N R-002D			1315				
Downstream Duplicate			1400				
			1415				
Remarks							3. Include J flags
SEND RESULTS TO:							Attn: George Wlegmann, Greg Knapp, Chow Yip
Golder Associates Inc.							425 Lakeside Drive
Sunnyvale, CA 94085							Phone (408) 220-9223
							Fax (408) 220-9224
Relinquished by (signature): David Chalt		Received by (signature): Sam Yip		Date/Time: 10-10-13 1440			
Relinquished by (signature): Sam Yip		Accepted by (signature): K. L. M.		Date/Time: 10-10-17 220000			
Relinquished by (signature): David Walker		Received by (signature): JAB 12-11-2013		Date/Time: 11-10-13 2240			



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

18 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J0911

Enclosed are the results of analyses for samples received by the laboratory on 10/11/13 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/18/13 16:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Comp	13J0911-01	Water	10/11/13 09:30	10/11/13 21:45
Pond 9 Comp	13J0911-02	Water	10/11/13 11:45	10/11/13 21:45
Pond 17 Comp	13J0911-03	Water	10/11/13 12:20	10/11/13 21:45

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/18/13 16:04

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A Comp (13J0911-01) Water Sampled: 10/11/13 09:30 Received: 10/11/13 21:45											
Total Suspended Solids	2.6	0.30	0.50		mg/l	1	AJ31528	10/15/13 09:15	10/17/13 11:23	SM2540D	
Pond 9 Comp (13J0911-02) Water Sampled: 10/11/13 11:45 Received: 10/11/13 21:45											
Total Suspended Solids	8.8	0.30	0.50		mg/l	1	AJ31528	10/15/13 09:15	10/17/13 11:23	SM2540D	
Pond 17 Comp (13J0911-03) Water Sampled: 10/11/13 12:20 Received: 10/11/13 21:45											
Total Suspended Solids	10	0.30	0.50		mg/l	1	AJ31528	10/15/13 09:15	10/17/13 11:23	SM2540D	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/18/13 16:04

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ31528 - General Preparation

Blank (AJ31528-BLK1)

Prepared: 10/15/13 Analyzed: 10/17/13

Total Suspended Solids	0.400	0.30	0.50	mg/l							J
------------------------	-------	------	------	------	--	--	--	--	--	--	---

Duplicate (AJ31528-DUP1)

Source: 13J0912-01

Prepared: 10/15/13 Analyzed: 10/17/13

Total Suspended Solids	65.0	0.30	0.50	mg/l		72.5			10.9	30	
------------------------	------	------	------	------	--	------	--	--	------	----	--

Duplicate (AJ31528-DUP2)

Source: 13J0986-02

Prepared: 10/15/13 Analyzed: 10/17/13

Total Suspended Solids	118	0.30	0.50	mg/l		124			4.96	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Bruce L. Gove
Laboratory Director

10/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/18/13 16:04

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

10/18/2013



Golder Associates CHAIN OF CUSTODY

1350911
Page 1 of 1
Quotation No. Invoice Lehigh
Temp 48

PROJECT NO.: 063-7109-914		SITE NAME: Composite Lehigh STE permit		ANALYSES		EDD required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
SAMPLER(S): David Walter (printed) David C. Shalt (signature)		CONTRACT LABORATORY: Alpha Standard		Container Info		EDF required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
TURN-AROUND TIME:		Collection		Type/Vol.		Cont. Qty.	
		Date		Filter		Remarks	
		Time		Preserv.			
Sample I.D.		Date		Matrix		1	
Lab I.D.		Time		Depth		1	
Pond 4A Comp		10-11-13 0930 W				1	
Pond 9 Comp		↓ 1145				1	
Pond 17 Comp		↓ 1220				1	
Relinquished by: (signature) David Walter		Received by: (signature) Ray Miller		Date/Time 10-11-13 1500		SEND RESULTS TO: Attn: George Wegmann / Greg Knapp, Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	
Relinquished by: (signature) David Walter		Received by: (signature) Ray Miller		Date/Time 10-11-13 1915			
Relinquished by: (signature) David Walter		Received by: (signature) Ray Miller		Date/Time 10-11-13 2145			



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

21 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J0969

Enclosed are the results of analyses for samples received by the laboratory on 10/14/13 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 0637109-914

Reported:

10/21/13 10:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 13B Comp	13J0969-01	Water	10/12/13 08:00	10/14/13 21:45

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/21/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 0637109-914

Reported:

10/21/13 10:58

**Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 13B Comp (13J0969-01) Water Sampled: 10/12/13 08:00 Received: 10/14/13 21:45											
Total Suspended Solids	0.60	0.30	0.50		mg/l	1	AJ31528	10/15/13 09:15	10/17/13 11:23	SM2540D	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/21/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 0637109-914

Reported:

10/21/13 10:58

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ31528 - General Preparation

Blank (AJ31528-BLK1)

Prepared: 10/15/13 Analyzed: 10/17/13

Total Suspended Solids	0.400	0.30	0.50	mg/l							J
------------------------	-------	------	------	------	--	--	--	--	--	--	---

Duplicate (AJ31528-DUP1)

Source: 13J0912-01

Prepared: 10/15/13 Analyzed: 10/17/13

Total Suspended Solids	65.0	0.30	0.50	mg/l		72.5			10.9	30	
------------------------	------	------	------	------	--	------	--	--	------	----	--

Duplicate (AJ31528-DUP2)

Source: 13J0986-02

Prepared: 10/15/13 Analyzed: 10/17/13

Total Suspended Solids	118	0.30	0.50	mg/l		124			4.96	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Bruce L. Gove
Laboratory Director

10/21/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 0637109-914

Reported:

10/21/13 10:58

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/21/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Golder Associates CHAIN OF CUSTODY

1310969

Quotation No.

PROJECT NO: 0637109-914		SITE NAME: Lehigh S&G Permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): 1AN SPANZANI (printed)		Signature: <i>[Signature]</i> (signature)		TSS (composite)		EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CONTRACT LABORATORY: TURN-AROUND TIME:		Alpha Standard					
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	Cont. Qty.
		Date	Time				
136 Comp		10/12/13	08:00	W		1	
Relinquished by (signature) <i>[Signature]</i>		10/12/13		Received by (signature) RODNEY SANTILLAN		Date/Time 10/14/13 11:55	
Relinquished by (signature) RODNEY SANTILLAN				Received by (signature) K. LITA		Date/Time 10-14-13 1855	
Relinquished by (signature) K. LITA				Received by (signature) ABR-LITA		Date/Time 10-14-13 2145	
				SEND RESULTS TO: Attn: <i>[Signature]</i> Norman Greg Knapp chow Yip Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224			



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

25 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J1104

Enclosed are the results of analyses for samples received by the laboratory on 10/15/13 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/25/13 10:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13J1104-01	Water	10/15/13 10:45	10/15/13 21:40
Pond 9 EFF M-002	13J1104-02	Water	10/15/13 12:15	10/15/13 21:40
Pond 9 UP R-001B	13J1104-03	Water	10/15/13 12:25	10/15/13 21:40
Pond 9 DN R-002B	13J1104-04	Water	10/15/13 12:30	10/15/13 21:40
Pond 13B EFF M-003	13J1104-05	Water	10/15/13 13:20	10/15/13 21:40
Pond 17 EFF M-004	13J1104-06	Water	10/15/13 14:05	10/15/13 21:40
Pond 17 DN R-002D	13J1104-07	Water	10/15/13 14:15	10/15/13 21:40

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/25/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/25/13 10:12

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit	Units							
Pond 4A EFF M-001 (13J1104-01) Water Sampled: 10/15/13 10:45 Received: 10/15/13 21:40											
Total Dissolved Solids	860	5.0	10	mg/l	1	AJ32121	10/21/13 10:15	10/24/13 10:30	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AJ31647	10/16/13 13:00	10/16/13 17:00	SM2540F		U
Pond 9 EFF M-002 (13J1104-02) Water Sampled: 10/15/13 12:15 Received: 10/15/13 21:40											
Total Dissolved Solids	5100	5.0	10	mg/l	1	AJ32121	10/21/13 10:15	10/24/13 10:30	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AJ31647	10/16/13 13:00	10/16/13 17:00	SM2540F		U
Pond 9 UP R-001B (13J1104-03) Water Sampled: 10/15/13 12:25 Received: 10/15/13 21:40											
Total Dissolved Solids	1400	5.0	10	mg/l	1	AJ32121	10/21/13 10:15	10/24/13 10:30	SM2540C		
Pond 9 DN R-002B (13J1104-04) Water Sampled: 10/15/13 12:30 Received: 10/15/13 21:40											
Total Dissolved Solids	1100	5.0	10	mg/l	1	AJ32121	10/21/13 10:15	10/24/13 10:30	SM2540C		
Pond 13B EFF M-003 (13J1104-05) Water Sampled: 10/15/13 13:20 Received: 10/15/13 21:40											
Total Dissolved Solids	1500	5.0	10	mg/l	1	AJ32121	10/21/13 10:15	10/24/13 10:30	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AJ31647	10/16/13 13:00	10/16/13 17:00	SM2540F		U
Pond 17 EFF M-004 (13J1104-06) Water Sampled: 10/15/13 14:05 Received: 10/15/13 21:40											
Total Dissolved Solids	1100	5.0	10	mg/l	1	AJ32121	10/21/13 10:15	10/24/13 10:30	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AJ31647	10/16/13 13:00	10/16/13 17:00	SM2540F		U
Pond 17 DN R-002D (13J1104-07) Water Sampled: 10/15/13 14:15 Received: 10/15/13 21:40											
Total Dissolved Solids	1100	5.0	10	mg/l	1	AJ32121	10/21/13 10:15	10/24/13 10:30	SM2540C		

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/25/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/25/13 10:12

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13J1104-01) Water Sampled: 10/15/13 10:45 Received: 10/15/13 21:40											
Chloride	71	0.75	12		mg/l	25	AJ31651	10/16/13 16:21	10/19/13 08:18	EPA 300.0	
Pond 9 EFF M-002 (13J1104-02) Water Sampled: 10/15/13 12:15 Received: 10/15/13 21:40											
Chloride	110	0.75	12		mg/l	25	AJ31651	10/16/13 16:21	10/19/13 09:04	EPA 300.0	
Pond 9 UP R-001B (13J1104-03) Water Sampled: 10/15/13 12:25 Received: 10/15/13 21:40											
Chloride	99	0.75	12		mg/l	25	AJ31651	10/16/13 16:21	10/19/13 09:19	EPA 300.0	
Pond 9 DN R-002B (13J1104-04) Water Sampled: 10/15/13 12:30 Received: 10/15/13 21:40											
Chloride	110	0.75	12		mg/l	25	AJ31651	10/16/13 16:21	10/19/13 09:34	EPA 300.0	
Pond 13B EFF M-003 (13J1104-05) Water Sampled: 10/15/13 13:20 Received: 10/15/13 21:40											
Chloride	69	0.75	12		mg/l	25	AJ31651	10/16/13 16:21	10/19/13 09:49	EPA 300.0	
Pond 17 EFF M-004 (13J1104-06) Water Sampled: 10/15/13 14:05 Received: 10/15/13 21:40											
Chloride	160	0.75	12		mg/l	25	AJ31651	10/16/13 16:21	10/19/13 10:04	EPA 300.0	
Pond 17 DN R-002D (13J1104-07) Water Sampled: 10/15/13 14:15 Received: 10/15/13 21:40											
Chloride	150	0.75	12		mg/l	25	AJ31651	10/16/13 16:21	10/19/13 10:19	EPA 300.0	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/25/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/25/13 10:12

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ32121 - General Preparation

Blank (AJ32121-BLK1)

Prepared: 10/21/13 Analyzed: 10/24/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AJ32121-DUP1)

Source: 13J1055-02

Prepared: 10/21/13 Analyzed: 10/24/13

Total Dissolved Solids	400	5.0	10	mg/l		397			0.753	30	
------------------------	-----	-----	----	------	--	-----	--	--	-------	----	--

Duplicate (AJ32121-DUP2)

Source: 13J1104-01

Prepared: 10/21/13 Analyzed: 10/24/13

Total Dissolved Solids	996	5.0	10	mg/l		856			15.1	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/25/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/25/13 10:12

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ31651 - General Preparation

Blank (AJ31651-BLK1)

Prepared: 10/16/13 Analyzed: 10/17/13

Chloride	ND	0.030	0.50	mg/l							U
----------	----	-------	------	------	--	--	--	--	--	--	---

LCS (AJ31651-BS1)

Prepared: 10/16/13 Analyzed: 10/17/13

Chloride	11.6	0.030	0.50	mg/l	11.1		105	90-110			
----------	------	-------	------	------	------	--	-----	--------	--	--	--

Duplicate (AJ31651-DUP1)

Source: 13J1111-01

Prepared: 10/16/13 Analyzed: 10/17/13

Chloride	28.4	0.030	0.50	mg/l		28.4			0.130	20	
----------	------	-------	------	------	--	------	--	--	-------	----	--

Matrix Spike (AJ31651-MS1)

Source: 13J1111-01

Prepared: 10/16/13 Analyzed: 10/17/13

Chloride	39.3	0.060	1.0	mg/l	11.1	28.4	98.1	80-120			
----------	------	-------	-----	------	------	------	------	--------	--	--	--

Matrix Spike Dup (AJ31651-MSD1)

Source: 13J1111-01

Prepared: 10/16/13 Analyzed: 10/17/13

Chloride	39.3	0.060	1.0	mg/l	11.1	28.4	98.0	80-120	0.0339	20	
----------	------	-------	-----	------	------	------	------	--------	--------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/25/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/25/13 10:12

Notes and Definitions

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/25/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Golder Associates CHAIN OF CUSTODY

Page 1 of 1
Quotation No. **13J1104**
Lehigh

PROJECT NO.: 063-7109-914		SITE NAME: Weekly Lehigh SFG permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
SAMPLER(S): David Waister (printed)		David C. Waite (signature)		SS, TDS, chloride TDS, chloride				
CONTRACT LABORATORY: Alpha Standard		Container Info						
Sample I.D.	Lab I.D.	Collection		Type/Vol.	Filter	Preserv.	Cont. Qty.	Remarks
		Date	Time					
Pond 4A Eff M-001		10-15-13	1045	W			1	
Pond 9 Eff M-002			1215				1	
Pond 9 up R-001B			1225				1	
Pond 9 N R-002B			1230				1	
Pond 13B Eff M-003			1320				1	
Pond 17 Eff M-004			1405				1	
Pond 170N R-003D			1415				1	
Relinquished by (signature): David C. Waite		Received by (signature): Sulph		Date/Time: 10-15-13 1445		SEND RESULTS TO: Attn: George Weymann, Greg Knapp, Chow Pip		
Relinquished by (signature): R. W. T. N.		Received by (signature): R. W. T. N.		Date/Time: 10-15-13 1900		Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224		
Relinquished by (signature): R. W. T. N.		Received by (signature): LAB R-1025		Date/Time: 10-15-13 2140				



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 3, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Client: Lehigh Southwest Cement Company

Lab ID: 13J1194-02

Sample Name: Pond 9

Sampled: 10/16/2013 12:20

Species: Oncorhynchus mykiss - Rainbow Trout

Conditions: 2 x 5L tanks with 10 fish per tank

Aeration: No If yes (DO <6mg/L), details below:

Aerated at 100 bubbles/min, 1mm ID pipet, air pump

Tanks aerated: _____

Date/time started: _____

Date/time ended: _____

Residual Chlorine: If yes, then sodium thiosulfate was

No added to Control A also.

96 Hour Acute Toxicity Screen - Static Renewal

	Sample					Control	
	Initial	24hr	48hr	72hr	Final	Initial	Final
Hardness:	563	560	565	562	563	97	99
Alkalinity:	195	190	190	190	195	61	60
EC:	1385	-	-	-	1391	351	362

Acclimation Temp (deg C):	12
Average Length (mm):	15.6
Average Weight (g):	0.144
Hatch Date:	9/23/13
Age (Days):	24

Date/Time:	10/17/13 13:00 Initial			10/18/13 11:30 24 Hours				10/19/13 17:30 48 Hours				10/20/13 11:30 72 Hours				10/21/13 14:00 96 Hours				TOTAL
	DO	Temp	pH	DO	Temp	pH	#M	#M												
Control A	8.4	11.9	8.2	8.2	11.2	7.9	0	8.6	11.3	7.9	0	8.3	11.4	7.7	0	8.2	11.4	7.8	0	0
Control B	8.4	11.9	8.2	8.2	11.2	7.9	0	8.6	11.3	7.9	0	8.1	11.4	7.7	0	8.1	11.4	7.8	0	0
Sample A	10.4	11.0	7.2	8.0	11.3	7.9	0	7.7	10.8	7.9	0	8.7	11.1	7.7	0	7.9	11.3	8.1	0	0
Sample B	10.4	11.0	7.2	8.2	11.3	7.9	0	7.7	10.8	7.9	0	8.5	11.1	7.7	0	8.0	11.3	8.1	0	0
Analyst:	CEF			CEF				TCA				CEF				CEF				

Results: 100% Survival Control
 100% Survival Sample

EC = conductivity in umhos/cm
Alkalinity and hardness in mg/L
DO = dissolved oxygen in mg/L
Temp = temperature in degrees C
#M = number of mortalities

Laboratory Director: *Theresa Love* 10-31-13

Date: 10/21/2013
Method: EPA-821-R-02-012



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 3, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Client: Lehigh Southwest Cement Company

Lab ID: 13J1194-01

Sample Name: Pond 4A

Sampled: 10/16/2013 11:20

Species: Oncorhynchus mykiss - Rainbow Trout

Conditions: 2 x 5L tanks with 10 fish per tank

Aeration: No If yes (DO <6mg/L), details below:

Aerated at 100 bubbles/min, 1mm ID pipet, air pump

Tanks aerated: _____

Date/time started: _____

Date/time ended: _____

Residual Chlorine: If yes, then sodium thiosulfate was

No added to Control A also.

96 Hour Acute Toxicity Screen - Static Renewal

	Sample					Control	
	Initial	24hr	48hr	72hr	Final	Initial	Final
Hardness:	496	493	501	490	496	97	99
Alkalinity:	70	75	75	75	70	61	60
EC:	1095	-	-	-	1095	351	362

Acclimation Temp (deg C):	12
Average Length (mm):	15.6
Average Weight (g):	0.144
Hatch Date:	9/23/13
Age (Days):	24

Date/Time:	10/17/13 13:00 Initial			10/18/13 11:30 24 Hours				10/19/13 17:30 48 Hours				10/20/13 11:30 72 Hours				10/21/13 14:00 96 Hours				TOTAL #M
	DO	Temp	pH	DO	Temp	pH	#M													
Control A	8.4	11.9	8.2	8.2	11.2	7.9	0	8.6	11.3	7.9	0	8.3	11.4	7.7	0	8.2	11.4	7.8	0	0
Control B	8.4	11.9	8.2	8.2	11.2	7.9	0	8.6	11.3	7.9	0	8.1	11.4	7.7	0	8.1	11.4	7.8	0	0
Sample A	7.6	11.1	8.1	9.0	11.3	7.9	0	9.0	10.7	8.0	0	9.3	11.2	7.9	0	8.2	11.3	7.8	0	0
Sample B	7.6	11.1	8.1	9.1	11.3	7.9	0	8.9	10.8	8.0	0	9.2	11.2	7.9	0	8.2	11.3	7.8	0	0
Analyst:	CEF			CEF				TCA				CEF				CEF				

Results: 100% Survival Control

100% Survival Sample

EC = conductivity in umhos/cm
Alkalinity and hardness in mg/L
DO = dissolved oxygen in mg/L
Temp = temperature in degrees C
#M = number of mortalities

Laboratory Director: *Doree Love* 10-31-13

Date: 10/21/2013

Method: EPA-821-R-02-012



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

29 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J1231

Enclosed are the results of analyses for samples received by the laboratory on 10/16/13 22:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/29/13 12:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Composite	13J1231-01	Water	10/16/13 11:20	10/16/13 22:00
Pond 9 Composite	13J1231-02	Water	10/16/13 12:20	10/16/13 22:00

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/29/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/29/13 12:59

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A Composite (13J1231-01) Water Sampled: 10/16/13 11:20 Received: 10/16/13 22:00											
Total Suspended Solids	1.2	0.30	0.50		mg/l	1	AJ32131	10/21/13 10:47	10/22/13 16:05	SM2540D	
Pond 9 Composite (13J1231-02) Water Sampled: 10/16/13 12:20 Received: 10/16/13 22:00											
Total Suspended Solids	1.4	0.30	0.50		mg/l	1	AJ32131	10/21/13 10:47	10/22/13 16:05	SM2540D	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/29/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/29/13 12:59

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ32131 - General Preparation

Blank (AJ32131-BLK1)

Prepared: 10/21/13 Analyzed: 10/22/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AJ32131-DUP1)

Source: 13J1141-01

Prepared: 10/21/13 Analyzed: 10/22/13

Total Suspended Solids	200	0.30	0.50	mg/l		215			7.23	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Duplicate (AJ32131-DUP2)

Source: 13J1185-01

Prepared: 10/21/13 Analyzed: 10/22/13

Total Suspended Solids	222	0.30	0.50	mg/l		211			5.12	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/29/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

10/29/13 12:59

Notes and Definitions

U	Analyte included in analysis, but not detected at or above MDL.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/29/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

13J1231



Golder Associates CHAIN OF CUSTODY

Page 1 of 1
Quotation No. Invasive Lehigh

PROJECT NO.: <u>063-7109-914</u>		SITE NAME: <u>Composite</u> <u>Lehigh St & permit</u>		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
SAMPLER(S): <u>David Walter</u> <small>(printed)</small>		<u>David C. Walter</u> <small>(signature)</small>		Container Info		EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
CONTRACT LABORATORY: <u>Alpha</u>		TURN-AROUND TIME: <u>Standard</u>		Type/Vol.		Cont. Qty.		
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Filter	Preserv.	Remarks
		Date	Time					
<u>Pond 4 Composite</u>		<u>10-16-13</u>	<u>1120</u>	<u>W</u>	<u>1</u>	<u>IL</u>		<u>Include J-flags</u>
<u>Pond 9 Composite</u>		<u>10-16-13</u>	<u>1220</u>	<u>W</u>	<u>1</u>	<u>M</u>		
Requisitioned by: (signature) <u>David C. Walter</u>		Received by: (signature) <u>Rodney Santillana</u>		Date/Time: <u>10-16-13 14:20</u>		SEND RESULTS TO: Attn: <u>George Wegmann, Greg Knapp</u> Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224		
Requisitioned by: (signature) <u>Rodney Santillana</u>		Received by: (signature) <u>AB Rivera</u>		Date/Time: <u>10-16-13 16:20</u>				



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

28 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J1402

Enclosed are the results of analyses for samples received by the laboratory on 10/21/13 21:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

10/28/13 16:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 13B Composite	13J1402-01	Water	10/18/13 12:30	10/21/13 21:50
Pond 17 Composite	13J1402-02	Water	10/18/13 13:35	10/21/13 21:50

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/28/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

10/28/13 16:30

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 13B Composite (13J1402-01) Water Sampled: 10/18/13 12:30 Received: 10/21/13 21:50											
Total Suspended Solids	ND	0.30	0.50		mg/l	1	AJ32348	10/23/13 12:09	10/25/13 08:52	SM2540D	U
Pond 17 Composite (13J1402-02) Water Sampled: 10/18/13 13:35 Received: 10/21/13 21:50											
Total Suspended Solids	2.2	0.30	0.50		mg/l	1	AJ32348	10/23/13 12:09	10/25/13 08:52	SM2540D	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/28/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

10/28/13 16:30

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ32348 - General Preparation

Blank (AJ32348-BLK1)

Prepared: 10/23/13 Analyzed: 10/25/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AJ32348-DUP1)

Source: 13J1426-01

Prepared: 10/23/13 Analyzed: 10/25/13

Total Suspended Solids	348	0.30	0.50	mg/l		316			9.64	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Duplicate (AJ32348-DUP2)

Source: 13J1442-01

Prepared: 10/23/13 Analyzed: 10/25/13

Total Suspended Solids	290	0.30	0.50	mg/l		285			1.74	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/28/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

10/28/13 16:30

Notes and Definitions

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/28/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

31 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J1540

Enclosed are the results of analyses for samples received by the laboratory on 10/22/13 21:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly/ 063 7109 914

Reported:

10/31/13 11:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13J1540-01	Water	10/22/13 10:51	10/22/13 21:25
Pond 9 EFF M-002	13J1540-02	Water	10/22/13 00:00	10/22/13 21:25
Pond 9 UP R-001B	13J1540-03	Water	10/22/13 13:21	10/22/13 21:25
Pond 9 DN R-002B	13J1540-04	Water	10/22/13 13:31	10/22/13 21:25
Pond 13B EFF M-003	13J1540-05	Water	10/22/13 11:51	10/22/13 21:25
Pond 17 EFF M-004	13J1540-06	Water	10/22/13 14:21	10/22/13 21:25
Pond 17 DN R-002D	13J1540-07	Water	10/22/13 14:31	10/22/13 21:25

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/31/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly/ 063 7109 914

Reported:

10/31/13 11:15

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit	Units							
Pond 4A EFF M-001 (13J1540-01) Water Sampled: 10/22/13 10:51 Received: 10/22/13 21:25											
Total Dissolved Solids	860	5.0	10	mg/l	1	AJ32455	10/24/13 16:15	10/28/13 14:00	SM2540C		
Turbidity	5.9	0.030	0.10	NTU	"	AJ32346	10/22/13 18:30	10/22/13 18:30	SM2130B		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AJ32429	10/23/13 13:00	10/23/13 17:00	SM2540F		U
Pond 9 EFF M-002 (13J1540-02) Water Sampled: 10/22/13 00:00 Received: 10/22/13 21:25											
Total Dissolved Solids	1000	5.0	10	mg/l	1	AJ32455	10/24/13 16:15	10/28/13 14:00	SM2540C		
Turbidity	1.4	0.030	0.10	NTU	"	AJ32346	10/22/13 18:30	10/22/13 18:30	SM2130B		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AJ32429	10/23/13 13:00	10/23/13 17:00	SM2540F		U
Pond 9 UP R-001B (13J1540-03) Water Sampled: 10/22/13 13:21 Received: 10/22/13 21:25											
Total Dissolved Solids	1400	5.0	10	mg/l	1	AJ32455	10/24/13 16:15	10/28/13 14:00	SM2540C		
Pond 9 DN R-002B (13J1540-04) Water Sampled: 10/22/13 13:31 Received: 10/22/13 21:25											
Total Dissolved Solids	1100	5.0	10	mg/l	1	AJ32455	10/24/13 16:15	10/28/13 14:00	SM2540C		
Pond 13B EFF M-003 (13J1540-05) Water Sampled: 10/22/13 11:51 Received: 10/22/13 21:25											
Total Dissolved Solids	1300	5.0	10	mg/l	1	AJ32455	10/24/13 16:15	10/28/13 14:00	SM2540C		
Turbidity	0.55	0.030	0.10	NTU	"	AJ32346	10/22/13 18:30	10/22/13 18:30	SM2130B		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AJ32429	10/23/13 13:00	10/23/13 17:00	SM2540F		U
Pond 17 EFF M-004 (13J1540-06) Water Sampled: 10/22/13 14:21 Received: 10/22/13 21:25											
Total Dissolved Solids	1800	5.0	10	mg/l	1	AJ32455	10/24/13 16:15	10/28/13 14:00	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AJ32429	10/23/13 13:00	10/23/13 17:00	SM2540F		U
Pond 17 DN R-002D (13J1540-07) Water Sampled: 10/22/13 14:31 Received: 10/22/13 21:25											
Total Dissolved Solids	1300	5.0	10	mg/l	1	AJ32455	10/24/13 16:15	10/28/13 14:00	SM2540C		

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/31/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140
Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: Weekly/ 063 7109 914

Reported:
10/31/13 11:15

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13J1540-01) Water Sampled: 10/22/13 10:51 Received: 10/22/13 21:25											
Chloride	70	0.60	10		mg/l	20	AJ32358	10/23/13 13:50	10/23/13 21:58	EPA 300.0	
Pond 9 EFF M-002 (13J1540-02) Water Sampled: 10/22/13 00:00 Received: 10/22/13 21:25											
Chloride	84	0.75	12		mg/l	25	AJ32358	10/23/13 13:50	10/23/13 22:13	EPA 300.0	
Pond 9 UP R-001B (13J1540-03) Water Sampled: 10/22/13 13:21 Received: 10/22/13 21:25											
Chloride	96	0.75	12		mg/l	25	AJ32358	10/23/13 13:50	10/23/13 22:28	EPA 300.0	
Pond 9 DN R-002B (13J1540-04) Water Sampled: 10/22/13 13:31 Received: 10/22/13 21:25											
Chloride	87	0.75	12		mg/l	25	AJ32358	10/23/13 13:50	10/23/13 22:43	EPA 300.0	
Pond 13B EFF M-003 (13J1540-05) Water Sampled: 10/22/13 11:51 Received: 10/22/13 21:25											
Chloride	67	0.75	12		mg/l	25	AJ32358	10/23/13 13:50	10/23/13 22:59	EPA 300.0	
Pond 17 EFF M-004 (13J1540-06) Water Sampled: 10/22/13 14:21 Received: 10/22/13 21:25											
Chloride	100	1.5	25		mg/l	50	AJ32358	10/23/13 13:50	10/23/13 23:14	EPA 300.0	
Pond 17 DN R-002D (13J1540-07) Water Sampled: 10/22/13 14:31 Received: 10/22/13 21:25											
Chloride	99	0.75	12		mg/l	25	AJ32358	10/23/13 13:50	10/23/13 23:29	EPA 300.0	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/31/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly/ 063 7109 914

Reported:

10/31/13 11:15

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ32346 - General Preparation

Duplicate (AJ32346-DUP1)

Source: 13J1519-01

Prepared & Analyzed: 10/22/13

Turbidity	0.390	0.030	0.10	NTU		0.380			2.60	30	
-----------	-------	-------	------	-----	--	-------	--	--	------	----	--

Batch AJ32455 - General Preparation

Blank (AJ32455-BLK1)

Prepared: 10/24/13 Analyzed: 10/28/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AJ32455-DUP1)

Source: 13J1631-01

Prepared: 10/24/13 Analyzed: 10/28/13

Total Dissolved Solids	370	5.0	10	mg/l		344			7.28	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AJ32455-DUP2)

Source: 13J1656-01

Prepared: 10/24/13 Analyzed: 10/28/13

Total Dissolved Solids	499	5.0	10	mg/l		483			3.26	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/31/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly/ 063 7109 914

Reported:

10/31/13 11:15

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AJ32358 - General Preparation											
Blank (AJ32358-BLK1)					Prepared & Analyzed: 10/23/13						
Chloride	ND	0.030	0.50	mg/l							U
LCS (AJ32358-BS1)					Prepared & Analyzed: 10/23/13						
Chloride	11.4	0.030	0.50	mg/l	11.1		102	90-110			
Duplicate (AJ32358-DUP1)					Source: 13J1491-01 Prepared & Analyzed: 10/23/13						
Chloride	5.50	0.030	0.50	mg/l		5.51			0.127	20	
Matrix Spike (AJ32358-MS1)					Source: 13J1491-01 Prepared & Analyzed: 10/23/13						
Chloride	16.9	0.15	2.5	mg/l	11.1	5.51	102	80-120			
Matrix Spike (AJ32358-MS2)					Source: 13J1522-03 Prepared & Analyzed: 10/23/13						
Chloride	18.3	0.060	1.0	mg/l	11.1	7.54	97.2	80-120			
Matrix Spike Dup (AJ32358-MSD1)					Source: 13J1491-01 Prepared & Analyzed: 10/23/13						
Chloride	16.6	0.15	2.5	mg/l	11.1	5.51	100	80-120	1.39	20	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/31/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly/ 063 7109 914

Reported:

10/31/13 11:15

Notes and Definitions

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/31/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

31 October 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J1623

Enclosed are the results of analyses for samples received by the laboratory on 10/23/13 22:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063 7109 914

Reported:

10/31/13 13:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Composite	13J1623-01	Water	10/23/13 09:40	10/23/13 22:00
Pond 13B Composite	13J1623-02	Water	10/23/13 10:30	10/23/13 22:00
Pond 9B Composite	13J1623-03	Water	10/23/13 10:55	10/23/13 22:00

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/31/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063 7109 914

Reported:

10/31/13 13:26

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A Composite (13J1623-01) Water Sampled: 10/23/13 09:40 Received: 10/23/13 22:00											
Total Suspended Solids	3.2	0.30	0.50		mg/l	1	AJ32519	10/25/13 10:18	10/28/13 15:38	SM2540D	
Pond 13B Composite (13J1623-02) Water Sampled: 10/23/13 10:30 Received: 10/23/13 22:00											
Total Suspended Solids	ND	0.30	0.50		mg/l	1	AJ32519	10/25/13 10:18	10/28/13 15:38	SM2540D	U
Pond 9B Composite (13J1623-03) Water Sampled: 10/23/13 10:55 Received: 10/23/13 22:00											
Total Suspended Solids	4.0	0.30	0.50		mg/l	1	AJ32519	10/25/13 10:18	10/28/13 15:38	SM2540D	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

10/31/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063 7109 914

Reported:

10/31/13 13:26

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ32519 - General Preparation

Blank (AJ32519-BLK1)

Prepared: 10/25/13 Analyzed: 10/28/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AJ32519-DUP1)

Source: 13J1655-01

Prepared: 10/25/13 Analyzed: 10/28/13

Total Suspended Solids	1020	0.30	0.50	mg/l		1030			0.976	30	
------------------------	------	------	------	------	--	------	--	--	-------	----	--

Duplicate (AJ32519-DUP2)

Source: 13J1714-01

Prepared: 10/25/13 Analyzed: 10/28/13

Total Suspended Solids	219	0.30	0.50	mg/l		222			1.45	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

10/31/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063 7109 914

Reported:

10/31/13 13:26

Notes and Definitions

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

10/31/2013



Golder Associates CHAIN OF CUSTODY

13J1623

PROJECT NO:		SITE NAME:		ANALYSES		EDD required?	
063 H09 914		Composite Lehigh S+G permit		TSS		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S):		CONTRACT LABORATORY:		Container Info		EDF required?	
Jeff Under (printed)		Alpha Standard		Type/Vol.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
TURN-AROUND TIME:		Collection		Filter		Remarks	
		Date Time		Preserv.			
Sample I.D.	Lab I.D.	Date	Time	Matrix	Depth	Cont. Qty.	Remarks
Pond 4A Composite		10/23	0940	W		1	include flags
Pond 13B composite			1030	W		1	
Pond 9 composite			1055	W		1	

SEND RESULTS TO:
 Attn: George Wegmann, Greg Kemp
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224

Date/Time: 10/23/13 1600
 Date/Time: 10/23/13 1910
 Date/Time: 10/23/13 2200

Received by (signature): [Signature]
 Received by (signature): [Signature]
 Received by (signature): [Signature]

Relinquished by (signature): [Signature]
 Relinquished by (signature): [Signature]
 Relinquished by (signature): [Signature]



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

04 November 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J1732

Enclosed are the results of analyses for samples received by the laboratory on 10/24/13 21:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063 7109 914

Reported:

11/04/13 13:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 17 Composite	13J1732-01	Water	10/24/13 12:10	10/24/13 21:50

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/4/2013



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063 7109 914

Reported:

11/04/13 13:50

**Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 17 Composite (13J1732-01) Water Sampled: 10/24/13 12:10 Received: 10/24/13 21:50											
Total Suspended Solids	7.0	0.30	0.50		mg/l	1	AJ32924	10/29/13 10:20	10/31/13 13:21	SM2540D	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/4/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063 7109 914

Reported:

11/04/13 13:50

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ32924 - General Preparation

Blank (AJ32924-BLK1)

Prepared: 10/29/13 Analyzed: 10/31/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AJ32924-DUP1)

Source: 13J1719-01

Prepared: 10/29/13 Analyzed: 10/31/13

Total Suspended Solids	567	0.30	0.50	mg/l		583			2.90	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Duplicate (AJ32924-DUP2)

Source: 13J1732-01

Prepared: 10/29/13 Analyzed: 10/31/13

Total Suspended Solids	8.00	0.30	0.50	mg/l		7.00			13.3	30	
------------------------	------	------	------	------	--	------	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Bruce L. Gove
Laboratory Director

11/4/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063 7109 914

Reported:

11/04/13 13:50

Notes and Definitions

U	Analyte included in analysis, but not detected at or above MDL.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/4/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Golder Associates CHAIN OF CUSTODY

1377732

Page 1 of 1

Quotation No. Invoice

Project No.: 063 7109 914

SITE NAME: Composite
Lehigh S+G permit

SAMPLER(S): Jeff Under
(printed)

[Signature]
(signature)

CONTRACT LABORATORY: Alpha

TURN-AROUND TIME: Standard

Sample I.D.	Lab I.D.	Collection		Matrix	Depth
		Date	Time		

Pond 17 composite 10/24 1210 W

Container Info

Type/Vol.
Filter
Preserv.

L
N
-

Cont. Qty.

1

Remarks

include J
Flags

ANALYSES

EDD required?
 Yes No

EDF required?
 Yes No

Relinquished by: [Signature]
(signature)

Relinquished by: [Signature]
(signature)

Relinquished by: [Signature]
(signature)

Received by: [Signature]
(signature)

Received by: [Signature]
(signature)

Received by: [Signature]
(signature)

Date/Time: 10/24/13 1615

Date/Time: 10-24-13 1900

Date/Time: 10-24-13 2150

SEND RESULTS TO:

Attn: George Wegmann, Greg Kopp
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

13 November 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh Hanson

Work Order: 13J1907

Enclosed are the results of analyses for samples received by the laboratory on 10/29/13 21:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh Hanson

Project Number: Weekly Sampling/063 7109 914

Reported:

11/13/13 14:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13J1907-01	Water	10/29/13 10:15	10/29/13 21:50
Pond 9 EFF M-002	13J1907-02	Water	10/29/13 12:30	10/29/13 21:50
Pond 9 UP R-002B	13J1907-03	Water	10/29/13 12:10	10/29/13 21:50
Pond 9 DN R-002B	13J1907-04	Water	10/29/13 12:20	10/29/13 21:50
Pond 13 EFF-003	13J1907-05	Water	10/29/13 13:15	10/29/13 21:50

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/13/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh Hanson

Project Number: Weekly Sampling/063 7109 914

Reported:

11/13/13 14:13

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13J1907-01) Water Sampled: 10/29/13 10:15 Received: 10/29/13 21:50											
Total Dissolved Solids	950	5.0	10		mg/l	1	AJ33124	10/31/13 09:45	11/04/13 16:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AJ33158	10/30/13 16:00	10/30/13 17:00	SM2540F	U
Pond 9 EFF M-002 (13J1907-02) Water Sampled: 10/29/13 12:30 Received: 10/29/13 21:50											
Total Dissolved Solids	1100	5.0	10		mg/l	1	AJ33124	10/31/13 09:45	11/04/13 16:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AJ33158	10/30/13 16:00	10/30/13 17:00	SM2540F	U
Pond 9 UP R-002B (13J1907-03) Water Sampled: 10/29/13 12:10 Received: 10/29/13 21:50											
Total Dissolved Solids	1500	5.0	10		mg/l	1	AJ33124	10/31/13 09:45	11/04/13 16:00	SM2540C	
Pond 9 DN R-002B (13J1907-04) Water Sampled: 10/29/13 12:20 Received: 10/29/13 21:50											
Total Dissolved Solids	1200	5.0	10		mg/l	1	AJ33124	10/31/13 09:45	11/04/13 16:00	SM2540C	
Pond 13 EFF-003 (13J1907-05) Water Sampled: 10/29/13 13:15 Received: 10/29/13 21:50											
Total Dissolved Solids	1400	5.0	10		mg/l	1	AJ33124	10/31/13 09:45	11/04/13 16:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AJ33158	10/30/13 16:00	10/30/13 17:00	SM2540F	U

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/13/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh Hanson

Project Number: Weekly Sampling/063 7109 914

Reported:

11/13/13 14:13

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13J1907-01) Water Sampled: 10/29/13 10:15 Received: 10/29/13 21:50											
Chloride	66	0.60	10		mg/l	20	AK30553	11/05/13 15:33	11/06/13 04:16	EPA 300.0	
Pond 9 EFF M-002 (13J1907-02) Water Sampled: 10/29/13 12:30 Received: 10/29/13 21:50											
Chloride	71	0.75	12		mg/l	25	AK30553	11/05/13 15:33	11/06/13 04:31	EPA 300.0	
Pond 9 UP R-002B (13J1907-03) Water Sampled: 10/29/13 12:10 Received: 10/29/13 21:50											
Chloride	100	0.75	12		mg/l	25	AK30553	11/05/13 15:33	11/06/13 04:46	EPA 300.0	
Pond 9 DN R-002B (13J1907-04) Water Sampled: 10/29/13 12:20 Received: 10/29/13 21:50											
Chloride	76	0.75	12		mg/l	25	AK30553	11/05/13 15:33	11/06/13 05:02	EPA 300.0	
Pond 13 EFF-003 (13J1907-05) Water Sampled: 10/29/13 13:15 Received: 10/29/13 21:50											
Chloride	64	0.75	12		mg/l	25	AK30553	11/05/13 15:33	11/06/13 05:17	EPA 300.0	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/13/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh Hanson

Project Number: Weekly Sampling/063 7109 914

Reported:

11/13/13 14:13

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ33124 - General Preparation

Blank (AJ33124-BLK1)

Prepared: 10/31/13 Analyzed: 11/04/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AJ33124-DUP1)

Source: 13J1907-01

Prepared: 10/31/13 Analyzed: 11/04/13

Total Dissolved Solids	940	5.0	10	mg/l		952			1.27	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AJ33124-DUP2)

Source: 13J1907-02

Prepared: 10/31/13 Analyzed: 11/04/13

Total Dissolved Solids	1080	5.0	10	mg/l		1060			1.88	30	
------------------------	------	-----	----	------	--	------	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/13/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140
Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh Hanson
Project Number: Weekly Sampling/063 7109 914

Reported:
11/13/13 14:13

Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK30553 - General Preparation											
Blank (AK30553-BLK1) Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	ND	0.030	0.50	mg/l							U
LCS (AK30553-BS1) Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	11.1	0.030	0.50	mg/l	11.1		100	90-110			
Duplicate (AK30553-DUP1) Source: 13K0067-01 Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	23.3	0.30	5.0	mg/l		23.3			0.00	20	
Matrix Spike (AK30553-MS1) Source: 13K0067-01 Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	36.1	0.030	0.50	mg/l	11.1	23.3	115	80-120			E
Matrix Spike (AK30553-MS2) Source: 13K0067-08 Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	35.2	0.15	2.5	mg/l	11.1	24.2	99.6	80-120			
Matrix Spike Dup (AK30553-MSD1) Source: 13K0067-01 Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	36.1	0.030	0.50	mg/l	11.1	23.3	115	80-120	0.126	20	E

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/13/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh Hanson

Project Number: Weekly Sampling/063 7109 914

Reported:

11/13/13 14:13

Notes and Definitions

- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

11/13/2013



Golder Associates CHAIN OF CUSTODY

Page 1 of 1
13J1907

Quotation No. 13J1907
Lehigh

PROJECT NO.: 063-7109-914
SITE NAME: Lehigh
Weekly Sampling
SAMPLER(S): AN SHARVEY
1 Sampling (signature)

CONTRACT LABORATORY: Alpha Labs
TURN-AROUND TIME: STANDARD

EDD required?
 Yes No
EDF required?
 Yes No

Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	Filter	Preserv.	Cont. Qty.	Remarks
		Date	Time							
Pond 4A EFF-001		10-27-13	10:15	W					1	
Pond 9 EFF M-002			12:30						1	
Pond 9 UP R-002B			12:10						1	
Pond 9 DS R-002B			12:20						1	
Pond 13 EFF-003			13:15	W					1	
										include J Flags
										5

ANALYSES
TS, DS, Chloride
TS, DS, Chloride
TS, DS, Chloride

Relinquished by: (signature) [Signature] 14:00
Relinquished by: (signature) [Signature]
Relinquished by: (signature) [Signature]
Received by: (signature) [Signature]
Received by: (signature) [Signature]
Received by: (signature) [Signature]

Date/Time	10/29/13	11/29/13	12/29/13
1445	1850	5150	

SEND RESULTS TO:
 Attn: George Weymann Greg Knapp
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

12 November 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13J2027

Enclosed are the results of analyses for samples received by the laboratory on 10/30/13 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

11/12/13 14:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 Comp	13J2027-01	Water	10/30/13 10:20	10/30/13 21:40
Pond 9 Comp	13J2027-02	Water	10/30/13 11:00	10/30/13 21:40
Pond 13b Comp	13J2027-03	Water	10/30/13 11:50	10/30/13 21:40
Pond 4 EFF M-001	13J2027-04	Water	10/30/13 10:00	10/30/13 21:40
Pond 17 EFF M-004	13J2027-05	Water	10/30/13 12:30	10/30/13 21:40
Pond 17 DN R-002D	13J2027-06	Water	10/30/13 12:45	10/30/13 21:40
Blank	13J2027-07	Water	10/30/13 00:00	10/30/13 21:40

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/12/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

11/12/13 14:46

**Metals by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 EFF M-001 (13J2027-04) Water Sampled: 10/30/13 10:00 Received: 10/30/13 21:40											
Mercury	10.4	0.200	0.500		ng/l	1	AK30811	11/07/13 18:00	11/08/13 13:40	EPA 1631E	
Blank (13J2027-07) Water Sampled: 10/30/13 00:00 Received: 10/30/13 21:40											
Mercury	ND	0.200	0.500		ng/l	1	AK30811	11/07/13 18:00	11/08/13 14:04	EPA 1631E	U

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/12/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

11/12/13 14:46

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 Comp (13J2027-01) Water Sampled: 10/30/13 10:20 Received: 10/30/13 21:40											
Total Suspended Solids	5.6	0.30	0.50		mg/l	1	AK30114	11/01/13 15:00	11/03/13 16:15	SM2540D	
Pond 9 Comp (13J2027-02) Water Sampled: 10/30/13 11:00 Received: 10/30/13 21:40											
Total Suspended Solids	7.0	0.30	0.50		mg/l	1	AK30114	11/01/13 15:00	11/03/13 16:15	SM2540D	
Pond 13b Comp (13J2027-03) Water Sampled: 10/30/13 11:50 Received: 10/30/13 21:40											
Total Suspended Solids	1.8	0.30	0.50		mg/l	1	AK30114	11/01/13 15:00	11/03/13 16:15	SM2540D	
Pond 17 EFF M-004 (13J2027-05) Water Sampled: 10/30/13 12:30 Received: 10/30/13 21:40											
Total Dissolved Solids	1800	5.0	10		mg/l	1	AJ33142	11/04/13 10:15	11/06/13 14:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AJ33162	10/31/13 13:00	10/31/13 17:00	SM2540F	U
Pond 17 DN R-002D (13J2027-06) Water Sampled: 10/30/13 12:45 Received: 10/30/13 21:40											
Total Dissolved Solids	1700	5.0	10		mg/l	1	AJ33142	11/04/13 10:15	11/06/13 14:00	SM2540C	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/12/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

11/12/13 14:46

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 17 EFF M-004 (13J2027-05) Water Sampled: 10/30/13 12:30 Received: 10/30/13 21:40											
Chloride	65	0.75	12		mg/l	25	AK30553	11/05/13 15:33	11/06/13 05:32	EPA 300.0	
Pond 17 DN R-002D (13J2027-06) Water Sampled: 10/30/13 12:45 Received: 10/30/13 21:40											
Chloride	88	0.75	12		mg/l	25	AK30553	11/05/13 15:33	11/06/13 05:47	EPA 300.0	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/12/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140
Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: [none]

Reported:
11/12/13 14:46

Metals by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK30811 - EPA 1631											
Blank (AK30811-BLK1) Prepared: 11/07/13 Analyzed: 11/08/13											
Mercury	ND	0.200	0.500	ng/l							U
Mercury	ND	0.200	0.500	"							U
LCS (AK30811-BS1) Prepared: 11/07/13 Analyzed: 11/08/13											
Mercury	4.69	0.200	0.500	ng/l	5.00		93.8	77-123			
Matrix Spike (AK30811-MS1) Source: 13J2027-04 Prepared: 11/07/13 Analyzed: 11/08/13											
Mercury	33.5	0.200	0.500	ng/l	25.0	10.4	92.4	71-125			
Matrix Spike (AK30811-MS2) Source: 13K0156-01 Prepared: 11/07/13 Analyzed: 11/08/13											
Mercury	25.0	0.200	0.500	ng/l	25.0	0.465	98.1	71-125			
Matrix Spike Dup (AK30811-MSD1) Source: 13J2027-04 Prepared: 11/07/13 Analyzed: 11/08/13											
Mercury	33.3	0.200	0.500	ng/l	25.0	10.4	91.6	71-125	0.599	24	
Matrix Spike Dup (AK30811-MSD2) Source: 13K0156-01 Prepared: 11/07/13 Analyzed: 11/08/13											
Mercury	25.5	0.200	0.500	ng/l	25.0	0.465	100	71-125	1.98	24	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/12/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

11/12/13 14:46

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AJ33142 - General Preparation

Blank (AJ33142-BLK1)

Prepared: 11/04/13 Analyzed: 11/06/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AJ33142-DUP1)

Source: 13J2030-01

Prepared: 11/04/13 Analyzed: 11/06/13

Total Dissolved Solids	269	5.0	10	mg/l		270			0.371	30	
------------------------	-----	-----	----	------	--	-----	--	--	-------	----	--

Duplicate (AJ33142-DUP2)

Source: 13K0015-01

Prepared: 11/04/13 Analyzed: 11/06/13

Total Dissolved Solids	410	5.0	10	mg/l		402			1.97	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Batch AK30114 - General Preparation

Blank (AK30114-BLK1)

Prepared: 11/01/13 Analyzed: 11/03/13

Total Suspended Solids	0.400	0.30	0.50	mg/l							J
------------------------	-------	------	------	------	--	--	--	--	--	--	---

Duplicate (AK30114-DUP1)

Source: 13J1860-01

Prepared: 11/01/13 Analyzed: 11/03/13

Total Suspended Solids	3000	0.30	0.50	mg/l		3500			15.4	30	
------------------------	------	------	------	------	--	------	--	--	------	----	--

Duplicate (AK30114-DUP2)

Source: 13J2034-01

Prepared: 11/01/13 Analyzed: 11/03/13

Total Suspended Solids	1880	0.30	0.50	mg/l		1680			11.3	30	
------------------------	------	------	------	------	--	------	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/12/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

11/12/13 14:46

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK30553 - General Preparation											
Blank (AK30553-BLK1) Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	ND	0.030	0.50	mg/l							U
LCS (AK30553-BS1) Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	11.1	0.030	0.50	mg/l	11.1		100	90-110			
Duplicate (AK30553-DUP1) Source: 13K0067-01 Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	23.3	0.30	5.0	mg/l		23.3			0.00	20	
Matrix Spike (AK30553-MS1) Source: 13K0067-01 Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	36.1	0.030	0.50	mg/l	11.1	23.3	115	80-120			E
Matrix Spike (AK30553-MS2) Source: 13K0067-08 Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	35.2	0.15	2.5	mg/l	11.1	24.2	99.6	80-120			
Matrix Spike Dup (AK30553-MSD1) Source: 13K0067-01 Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	36.1	0.030	0.50	mg/l	11.1	23.3	115	80-120	0.126	20	E

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/12/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: [none]

Reported:

11/12/13 14:46

Notes and Definitions

- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/12/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

December 2, 2013

Alpha Analytical Laboratories Inc.
ATTN: Robbie Phillips
208 Mason St.
Ukiah, CA 95482
robbie@alpha-labs.com

RE: Project AAL-DB1301

Client Project: 13J2027

Dear Mr. Phillips,

On November 1, 2013, Brooks Rand Labs (BRL) received one (1) water sample. The sample was logged-in for the contracted analyses of silver (Ag), arsenic (As), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), nickel (Ni), lead (Pb), antimony (Sb), selenium (Se), thallium (Tl), and zinc (Zn) according to the chain-of-custody (COC) forms. The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The results were blank-corrected as described in the calculations section of the relevant SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

In instances where a matrix spike/matrix spike duplicate (MS/MSD) set was spiked at a level less than the native sample, the recoveries are not considered valid indicators of data quality. However, these results are reported as a demonstration of precision. When the spiking levels were $\leq 25\%$ of the native sample concentrations, the recoveries were not reported (**NR**). No sample results were qualified on the basis of the MS or MSD recoveries.

The Ag MS performed on sample 13J2027-04 (13344033-01) recovered low at 73%. The associated MSD recovered within acceptance criteria, but low, at 78%. The Ag result for sample 13J2027-04 (13344033-01) was qualified **N** for inaccuracy.

The RPD of the Be MS and MSD was elevated. The MS/MSD set was spiked at about 2x the MRL and the MS & MSD met the secondary criteria of being less than 5x the MRL and within one MRL of each other.

Aside from concentration qualifiers, all data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

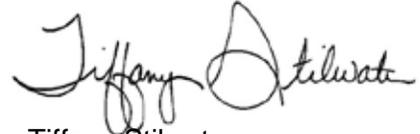
BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more information please see the *Report*

Information page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,



Lydia Greaves
Project Manager
lydia@brooksrnd.com



Tiffany Stilwater
Client Services Manager
tiffany@brooksrnd.com

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <<http://www.brooksrand.com/default.asp?contentID=586>>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
CRM	certified reference material	RPD	relative percent difference
D	dissolved fraction	RSD	relative standard deviation
DUP	duplicate	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction
IBL	instrument blank		

Definition of Data Qualifiers

(Effective 9/23/09)

B	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Result is estimated.
J	Estimated value. A full explanation is presented in the narrative.
J-M	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N	Spike recovery was not within acceptance criteria. Result is estimated.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
13J2027-04 Pond 4 EFF M-001	1344033-01	Water	Sample	10/30/2013	11/01/2013

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ag	Water	EPA 1638	11/11/2013	11/21/2013	B131991	1300800
As	Water	EPA 1638 DRC	11/11/2013	11/12/2013	B131992	1300772
Be	Water	EPA 1638	11/11/2013	11/21/2013	B131991	1300800
Cd	Water	EPA 1638	11/11/2013	11/21/2013	B131991	1300800
Cr	Water	EPA 1638 DRC	11/11/2013	11/13/2013	B131993	1300778
Cu	Water	EPA 1638	11/11/2013	11/21/2013	B131991	1300800
Ni	Water	EPA 1638 DRC	11/11/2013	11/13/2013	B131993	1300778
Pb	Water	EPA 1638	11/11/2013	11/21/2013	B131991	1300800
Sb	Water	EPA 1638	11/11/2013	11/21/2013	B131991	1300800
Se	Water	EPA 1638 DRC	11/11/2013	11/12/2013	B131992	1300772
Tl	Water	EPA 1638	11/11/2013	11/21/2013	B131991	1300800
Zn	Water	EPA 1638	11/11/2013	11/21/2013	B131991	1300800



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
13J2027-04 Pond 4 EFF M-001										
1344033-01	Ag	Water	T	0.005	N, U	0.005	0.021	µg/L	B131991	1300800
1344033-01	As	Water	T	1.32		0.047	0.158	µg/L	B131992	1300772
1344033-01	Be	Water	T	0.053	U	0.053	0.158	µg/L	B131991	1300800
1344033-01	Cd	Water	T	1.22		0.007	0.021	µg/L	B131991	1300800
1344033-01	Cr	Water	T	0.652		0.079	0.237	µg/L	B131993	1300778
1344033-01	Cu	Water	T	1.72		0.042	0.126	µg/L	B131991	1300800
1344033-01	Ni	Water	T	16.9		0.263	1.05	µg/L	B131993	1300778
1344033-01	Pb	Water	T	0.075		0.006	0.026	µg/L	B131991	1300800
1344033-01	Sb	Water	T	3.11		0.011	0.042	µg/L	B131991	1300800
1344033-01	Se	Water	T	29.6		0.105	0.316	µg/L	B131992	1300772
1344033-01	Tl	Water	T	0.317		0.003	0.011	µg/L	B131991	1300800
1344033-01	Zn	Water	T	4.68		0.06	0.21	µg/L	B131991	1300800

Accuracy & Precision Summary

Batch: B131991
Lab Matrix: Water
Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131991-BS1	Laboratory Fortified Blank (1337045)						
	Ag		0.4211	0.425	µg/L	101% 75-125	
	Be		3.158	3.431	µg/L	109% 75-125	
	Cd		0.2105	0.207	µg/L	98% 75-125	
	Cu		2.105	2.172	µg/L	103% 75-125	
	Pb		0.5263	0.600	µg/L	114% 75-125	
	Sb		0.4211	0.416	µg/L	99% 75-125	
	Tl		0.2105	0.242	µg/L	115% 75-125	
	Zn		4.211	4.08	µg/L	97% 75-125	
B131991-SRM2	Certified Reference Material (1323040, NIST 1643e)						
	Ag		1.062	0.925	µg/L	87% 75-125	
	Be		13.98	13.75	µg/L	98% 75-125	
	Cd		6.568	7.227	µg/L	110% 75-125	
	Cu		22.76	23.79	µg/L	105% 75-125	
	Pb		19.63	20.34	µg/L	104% 75-125	
	Sb		58.30	61.71	µg/L	106% 75-125	
	Tl		7.445	7.709	µg/L	104% 75-125	
	Zn		78.50	84.81	µg/L	108% 75-125	
B131991-SRM4	Certified Reference Material (1342064, Fe, Ca check (SCV3 as SRM))						
	Ag		4.000	3.488	µg/L	87% 75-125	
	Be		4.000	3.856	µg/L	96% 75-125	
	Cd		2.000	2.011	µg/L	101% 75-125	
	Cu		20.00	20.07	µg/L	100% 75-125	
	Pb		10.00	9.268	µg/L	93% 75-125	
	Sb		4.000	3.925	µg/L	98% 75-125	
	Tl		1.000	0.943	µg/L	94% 75-125	
	Zn		20.00	19.63	µg/L	98% 75-125	

Accuracy & Precision Summary

Batch: B131991
Lab Matrix: Water
Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131991-DUP1	Duplicate (1344033-01)						
	Ag	ND		ND	µg/L		N/C 20
	Be	ND		ND	µg/L		N/C 20
	Cd	1.216		1.215	µg/L		0.07% 20
	Cu	1.724		1.753	µg/L		2% 20
	Pb	0.075		0.074	µg/L		0.5% 20
	Sb	3.106		3.214	µg/L		3% 20
	Tl	0.317		0.322	µg/L		1% 20
Zn	4.68		4.73	µg/L		1% 20	
B131991-MS1	Matrix Spike (1344033-01)						
	Ag	ND	0.4211	0.309	µg/L	73% 75-125	
	Be	ND	0.2105	0.166	µg/L	79% 75-125	
	Cd	1.216	0.2105	1.385	µg/L	NR 75-125	
	Cu	1.724	2.105	3.547	µg/L	87% 75-125	
	Pb	0.075	0.5263	0.594	µg/L	99% 75-125	
	Sb	3.106	0.2105	3.343	µg/L	NR 75-125	
	Tl	0.317	0.1053	0.423	µg/L	101% 75-125	
Zn	4.68	10.53	13.13	µg/L	80% 75-125		
B131991-MSD1	Matrix Spike Duplicate (1344033-01)						
	Ag	ND	0.4211	0.330	µg/L	78% 75-125	7% 20
	Be	ND	0.2105	0.230	µg/L	109% 75-125	32% 20
	Cd	1.216	0.2105	1.386	µg/L	NR 75-125	0.01% 20
	Cu	1.724	2.105	3.512	µg/L	85% 75-125	1% 20
	Pb	0.075	0.5263	0.581	µg/L	96% 75-125	2% 20
	Sb	3.106	0.2105	3.371	µg/L	NR 75-125	0.8% 20
	Tl	0.317	0.1053	0.425	µg/L	103% 75-125	0.5% 20
Zn	4.68	10.53	12.98	µg/L	79% 75-125	1% 20	



Accuracy & Precision Summary

Batch: B131992
 Lab Matrix: Water
 Method: EPA 1638 DRC

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131992-BS1	Laboratory Fortified Blank (1337045)						
	As		5.263	5.529	µg/L	105% 75-125	
	Se		6.316	6.517	µg/L	103% 75-125	
B131992-SRM1	Certified Reference Material (1323040, NIST 1643e)						
	As		60.45	63.85	µg/L	106% 75-125	
	Se		11.97	13.22	µg/L	110% 75-125	
B131992-DUP1	Duplicate (1345008-01)						
	As	11.24		11.93	µg/L		6% 20
	Se	1.135		1.049	µg/L		8% 20
B131992-MS1	Matrix Spike (1345008-01)						
	As	11.24	10.53	24.09	µg/L	122% 75-125	
	Se	1.135	10.53	11.62	µg/L	100% 75-125	
B131992-MSD1	Matrix Spike Duplicate (1345008-01)						
	As	11.24	10.53	23.00	µg/L	112% 75-125	5% 20
	Se	1.135	10.53	12.12	µg/L	104% 75-125	4% 20



Accuracy & Precision Summary

Batch: B131993
Lab Matrix: Water
Method: EPA 1638 DRC

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B131993-BS1	Laboratory Fortified Blank (1337045)						
	Cr		3.158	3.313	µg/L	105% 75-125	
	Ni		4.211	4.637	µg/L	110% 75-125	
B131993-DUP1	Duplicate (1344033-01)						
	Cr	0.652		0.705	µg/L		8% 20
	Ni	16.90		16.66	µg/L		1% 20
B131993-MS1	Matrix Spike (1344033-01)						
	Cr	0.652	5.263	5.826	µg/L	98% 75-125	
	Ni	16.90	52.63	66.44	µg/L	94% 75-125	
B131993-MSD1	Matrix Spike Duplicate (1344033-01)						
	Cr	0.652	5.263	5.951	µg/L	101% 75-125	2% 20
	Ni	16.90	52.63	68.19	µg/L	97% 75-125	3% 20



Method Blanks & Reporting Limits

Batch: B131991
Matrix: Water
Method: EPA 1638
Analyte: Ag 107

Sample	Result	Units		
B131991-BLK1	0.005	µg/L		
B131991-BLK2	0.005	µg/L		
B131991-BLK3	0.005	µg/L		
B131991-BLK4	0.004	µg/L		
Average:	0.005		Standard Deviation:	0.001
Limit:	0.021		Limit:	0.005
			MDL:	0.005
			MRL:	0.021

Analyte: Be

Sample	Result	Units		
B131991-BLK1	-0.021	µg/L		
B131991-BLK2	-0.034	µg/L		
B131991-BLK3	-0.016	µg/L		
B131991-BLK4	-0.012	µg/L		
Average:	-0.021		Standard Deviation:	0.010
Limit:	0.158		Limit:	0.053
			MDL:	0.053
			MRL:	0.158

Analyte: Cd 114

Sample	Result	Units		
B131991-BLK1	-0.001	µg/L		
B131991-BLK2	-0.001	µg/L		
B131991-BLK3	0.002	µg/L		
B131991-BLK4	-0.0008	µg/L		
Average:	0.000		Standard Deviation:	0.001
Limit:	0.021		Limit:	0.007
			MDL:	0.007
			MRL:	0.021



Method Blanks & Reporting Limits

Analyte: Cu 63

Sample	Result	Units			
B131991-BLK1	-0.008	µg/L			
B131991-BLK2	-0.013	µg/L			
B131991-BLK3	-0.008	µg/L			
B131991-BLK4	-0.014	µg/L			
Average:	-0.011		Standard Deviation:	0.003	MDL: 0.042
Limit:	0.126		Limit:	0.042	MRL: 0.126

Analyte: Pb

Sample	Result	Units			
B131991-BLK1	-0.004	µg/L			
B131991-BLK2	-0.004	µg/L			
B131991-BLK3	-0.002	µg/L			
B131991-BLK4	-0.005	µg/L			
Average:	-0.004		Standard Deviation:	0.001	MDL: 0.006
Limit:	0.026		Limit:	0.006	MRL: 0.026

Analyte: Sb

Sample	Result	Units			
B131991-BLK1	0.009	µg/L			
B131991-BLK2	0.004	µg/L			
B131991-BLK3	0.003	µg/L			
B131991-BLK4	0.002	µg/L			
Average:	0.005		Standard Deviation:	0.003	MDL: 0.011
Limit:	0.042		Limit:	0.011	MRL: 0.042

Analyte: Tl

Sample	Result	Units			
B131991-BLK1	-0.002	µg/L			
B131991-BLK2	-0.003	µg/L			
B131991-BLK3	-0.002	µg/L			
B131991-BLK4	-0.002	µg/L			
Average:	-0.002		Standard Deviation:	0.000	MDL: 0.003
Limit:	0.011		Limit:	0.003	MRL: 0.011



Method Blanks & Reporting Limits

Analyte: Zn 66

Sample	Result	Units		
B131991-BLK1	-0.01	µg/L		
B131991-BLK2	-0.02	µg/L		
B131991-BLK3	0.004	µg/L		
B131991-BLK4	-0.01	µg/L		
Average: -0.01			Standard Deviation: 0.01	MDL: 0.06
Limit: 0.21			Limit: 0.06	MRL: 0.21



Method Blanks & Reporting Limits

Batch: B131992
Matrix: Water
Method: EPA 1638 DRC
Analyte: As 91

Sample	Result	Units		
B131992-BLK1	0.002	µg/L		
B131992-BLK2	0.003	µg/L		
B131992-BLK3	-0.0004	µg/L		
B131992-BLK4	0.001	µg/L		
Average:	0.001		Standard Deviation:	0.001
Limit:	0.032		Limit:	0.009
				MDL: 0.009
				MRL: 0.032

Analyte: Se 78

Sample	Result	Units		
B131992-BLK1	0.002	µg/L		
B131992-BLK2	-0.017	µg/L		
B131992-BLK3	-0.036	µg/L		
B131992-BLK4	-0.023	µg/L		
Average:	-0.019		Standard Deviation:	0.016
Limit:	0.063		Limit:	0.021
				MDL: 0.021
				MRL: 0.063



Method Blanks & Reporting Limits

Batch: B131993
Matrix: Water
Method: EPA 1638 DRC
Analyte: Cr 52

Sample	Result	Units		
B131993-BLK1	0.004	µg/L		
B131993-BLK2	0.007	µg/L		
B131993-BLK3	0.001	µg/L		
B131993-BLK4	0.003	µg/L		
Average:	0.004		Standard Deviation:	0.003
Limit:	0.047		Limit:	0.016
				MDL: 0.016
				MRL: 0.047

Analyte: Ni 62

Sample	Result	Units		
B131993-BLK1	0.052	µg/L		
B131993-BLK2	0.070	µg/L		
B131993-BLK3	0.009	µg/L		
B131993-BLK4	0.004	µg/L		
Average:	0.034		Standard Deviation:	0.032
Limit:	0.211		Limit:	0.053
				MDL: 0.053
				MRL: 0.211

Project ID: AAL-DB1301
PM: Lydia Greaves



BRL Report 1344033
Client PM: Robbie Phillips
Client PO: 130903RP-1

Sample Containers

Lab ID: 1344033-01
Sample: 13J2027-04 Pond 4 EFF M-001

Report Matrix: Water
Sample Type: Sample

Collected: 10/30/2013
Received: 11/01/2013

Des Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A Client-Provided	500 mL	n/a	0.1% HNO ₃ (BRL)	1331069		Cooler

Shipping Containers

Cooler

Received: November 1, 2013 10:28
Tracking No: 1Z8942500148871613 via
Coolant Type: Ice
Temperature: 0.3 °C

Description: Cooler
Damaged in transit? No
Returned to client? No

Custody seals present? No
Custody seals intact? No
COC present? Yes



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

11 November 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K0014

Enclosed are the results of analyses for samples received by the laboratory on 10/31/13 22:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/11/13 13:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 17 Composite	13K0014-01	Water	10/31/13 10:20	10/31/13 22:05

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/11/2013



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/11/13 13:51

**Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 17 Composite (13K0014-01) Water Sampled: 10/31/13 10:20 Received: 10/31/13 22:05											
Total Suspended Solids	40	0.30	0.50		mg/l	1	AK30114	11/01/13 15:00	11/03/13 16:15	SM2540D	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/11/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/11/13 13:51

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AK30114 - General Preparation

Blank (AK30114-BLK1)

Prepared: 11/01/13 Analyzed: 11/03/13

Total Suspended Solids	0.400	0.30	0.50	mg/l							J
------------------------	-------	------	------	------	--	--	--	--	--	--	---

Duplicate (AK30114-DUP1)

Source: 13J1860-01

Prepared: 11/01/13 Analyzed: 11/03/13

Total Suspended Solids	3000	0.30	0.50	mg/l		3500			15.4	30	
------------------------	------	------	------	------	--	------	--	--	------	----	--

Duplicate (AK30114-DUP2)

Source: 13J2034-01

Prepared: 11/01/13 Analyzed: 11/03/13

Total Suspended Solids	1880	0.30	0.50	mg/l		1680			11.3	30	
------------------------	------	------	------	------	--	------	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Bruce L. Gove
Laboratory Director

11/11/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/11/13 13:51

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

11/11/2013

Golder Associates
CHAIN OF CUSTODY



ANALYSES											
PROJECT NO.: <u>063-7109-914</u>		SITE NAME: <u>Lehigh ST6 permit</u>		SAMPLER(S): <u>David Walter (printed)</u> <u>David C. Yalbt (signature)</u>		CONTAINER INFO: <u>Alpha Standard</u>		Type/Vol. Filter Preserv.		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CONTRACT LABORATORY: <u>Alpha Standard</u>		TURN-AROUND TIME:		Collection Date Time		Matrix Depth		EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Sample I.D. <u>Pond 17 Composite 10-31-13 1020 W</u>		Lab I.D.		Date		Time		Matrix		Remarks <u>Include J-flags</u>	
Relinquished by (signature) <u>David C. Yalbt</u>		Received by (signature) <u>[Signature]</u>		Date/Time <u>10-31-13 1437</u>		Date/Time <u>10-31-13 1800</u>		Date/Time <u>10-31-13 2200</u>		SEND RESULTS TO: Attn: <u>Greg & Megmann, Greg Krapp</u> Golder Associates Inc. 425 Lakeside Drive Sunnyvale CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

08 November 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K0141

Enclosed are the results of analyses for samples received by the laboratory on 11/04/13 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/08/13 09:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001 (REF#13J0875-01)	13K0141-01	Water	10/10/13 10:20	11/04/13 15:30
Pond 9 EFF M-002 (REF#13J0875-02)	13K0141-02	Water	10/10/13 12:20	11/04/13 15:30
Pond 13B EFF M-003 (REF#13J0875-05)	13K0141-03	Water	10/10/13 11:15	11/04/13 15:30
Pond 17 EFF M-004 (REF#13J0875-06)	13K0141-04	Water	10/10/13 13:00	11/04/13 15:30

Received date indicates date additional analyses requested. Actual received date was 10-10-13 @ 2240

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/8/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/08/13 09:05

Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (REF#13J0875-01) (13K0141-01) Water Sampled: 10/10/13 10:20 Received: 11/04/13 15:30											
Total Dissolved Solids	970	5.0	10		mg/l	1	AK30547	11/05/13 14:00	11/07/13 14:45	SM2540C	T-2
Pond 9 EFF M-002 (REF#13J0875-02) (13K0141-02) Water Sampled: 10/10/13 12:20 Received: 11/04/13 15:30											
Total Dissolved Solids	960	5.0	10		mg/l	1	AK30547	11/05/13 14:00	11/07/13 14:45	SM2540C	T-2
Pond 13B EFF M-003 (REF#13J0875-05) (13K0141-03) Water Sampled: 10/10/13 11:15 Received: 11/04/13 15:30											
Total Dissolved Solids	1300	5.0	10		mg/l	1	AK30547	11/05/13 14:00	11/07/13 14:45	SM2540C	T-2
Pond 17 EFF M-004 (REF#13J0875-06) (13K0141-04) Water Sampled: 10/10/13 13:00 Received: 11/04/13 15:30											
Total Dissolved Solids	1600	5.0	10		mg/l	1	AK30547	11/05/13 14:00	11/07/13 14:45	SM2540C	T-2

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/8/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/08/13 09:05

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (REF#13J0875-01) (13K0141-01) Water Sampled: 10/10/13 10:20 Received: 11/04/13 15:30											
Chloride	61	0.60	10		mg/l	20	AK30553	11/05/13 15:33	11/06/13 12:33	EPA 300.0	
Pond 9 EFF M-002 (REF#13J0875-02) (13K0141-02) Water Sampled: 10/10/13 12:20 Received: 11/04/13 15:30											
Chloride	130	0.75	12		mg/l	25	AK30553	11/05/13 15:33	11/06/13 13:04	EPA 300.0	
Pond 13B EFF M-003 (REF#13J0875-05) (13K0141-03) Water Sampled: 10/10/13 11:15 Received: 11/04/13 15:30											
Chloride	58	0.75	12		mg/l	25	AK30553	11/05/13 15:33	11/06/13 13:49	EPA 300.0	
Pond 17 EFF M-004 (REF#13J0875-06) (13K0141-04) Water Sampled: 10/10/13 13:00 Received: 11/04/13 15:30											
Chloride	110	0.75	12		mg/l	25	AK30553	11/05/13 15:33	11/06/13 14:04	EPA 300.0	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/8/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/08/13 09:05

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AK30547 - General Preparation

Blank (AK30547-BLK1)

Prepared: 11/05/13 Analyzed: 11/07/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AK30547-DUP1)

Source: 13K0141-01

Prepared: 11/05/13 Analyzed: 11/07/13

Total Dissolved Solids	864	5.0	10	mg/l		968			11.4	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AK30547-DUP2)

Source: 13K0141-02

Prepared: 11/05/13 Analyzed: 11/07/13

Total Dissolved Solids	892	5.0	10	mg/l		956			6.93	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Bruce L. Gove
Laboratory Director

11/8/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/08/13 09:05

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK30553 - General Preparation											
Blank (AK30553-BLK1) Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	ND	0.030	0.50	mg/l							U
LCS (AK30553-BS1) Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	11.1	0.030	0.50	mg/l	11.1		100	90-110			
Duplicate (AK30553-DUP1) Source: 13K0067-01 Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	23.3	0.30	5.0	mg/l		23.3			0.00	20	
Matrix Spike (AK30553-MS1) Source: 13K0067-01 Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	36.1	0.030	0.50	mg/l	11.1	23.3	115	80-120			E
Matrix Spike (AK30553-MS2) Source: 13K0067-08 Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	35.2	0.15	2.5	mg/l	11.1	24.2	99.6	80-120			
Matrix Spike Dup (AK30553-MSD1) Source: 13K0067-01 Prepared: 11/05/13 Analyzed: 11/06/13											
Chloride	36.1	0.030	0.50	mg/l	11.1	23.3	115	80-120	0.126	20	E

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Bruce L. Gove
Laboratory Director

11/8/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/08/13 09:05

Notes and Definitions

- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- T-2 Sample analyzed outside of recommended holding time per client.
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/8/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

13K0141
13J0875

Page 1 of 1
Quotation No. Invoice Lehigh

Golder Associates
CHAIN OF CUSTODY



PROJECT NO: 063-7109-914		SITE NAME: Monthly Lehigh STG permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): David Walter (signature)		SAMPLER(S): David C. Hallett (signature)		Per George 11-4-13 Hardness TDS, Chloride TSS pH TSS TSS TSS		Cont. Qty 3 3 1 1 3 3 1 1 1	
CONTRACT LABORATORY: Alpha Standard		Container Info		Type/Vol		Remarks	
TURN-AROUND TIME:		Matrix		Depth		Include J flags	
Sample I.D.	Lab I.D.	Collection Date	Time	Matrix	Depth	Type/Vol	Remarks
Pond 4A Eff m-001		10-10-13	1030	W		2	
Pond 9 Eff m-002			1230			2	
Pond 9 40 R-001B			1230			1	
Pond 9 40 R-002B			1235			1	
Pond 13B Eff m-003			1115			2	
Pond 17 Eff m-004			1300			2	
Pond 170K R-002D			1315			1	
Downstream			1400			1	
Duplicate			1415			1	

Approved by (signature) David C. Hallett Approved by (signature) George Wegmann	Approved by (signature) George Wegmann Approved by (signature) Chow Yip	Date/Time 10-10-13 1440 Date/Time 11-10-13 2250	SEND RESULTS TO: Attn: George Wegmann, George Wegmann Golder Associates Inc 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224
--	--	--	--

Sean Foley@Alpha Labs

From: "Robbie Phillips (Alpha Labs)" <robbie@alpha-labs.com>
To: "Sean Foley" <sfoley@alpha-labs.com>
Sent: Monday, November 04, 2013 3:48 PM
Subject: Fw: Weekly Sampling on 10/10

From: Wegmann, George
Sent: Monday, November 04, 2013 3:24 PM
To: <mailto:robbie@alpha-labs.com>
Subject: Weekly Sampling on 10/10

Hi Robbie, for the weekly sampling on 10/10/13, we did not include TDS and chloride for the effluent samples. I know we are past holdtime, but if you still have the samples could you still run?

Thanks,
George



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

18 November 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K0579

Enclosed are the results of analyses for samples received by the laboratory on 11/07/13 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140
Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
11/18/13 14:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 UP R-001B (REF#13J0875-03)	13K0579-01	Water	10/10/13 12:30	11/07/13 16:00
Pond 9 DN R-002B (REF#13J0875-04)	13K0579-02	Water	10/10/13 12:35	11/07/13 16:00
Pond 17 DN R-002D (REF#13J0875-07)	13K0579-03	Water	10/10/13 13:15	11/07/13 16:00
Downstream (REF#13J0875-08)	13K0579-04	Water	10/10/13 14:00	11/07/13 16:00
Duplicate (REF#13J0875-09)	13K0579-05	Water	10/10/13 14:15	11/07/13 16:00

Received date indicates date additional analyses requested. Actual received date was 11/10/13 22:40

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/18/13 14:54

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 UP R-001B (REF#13J0875-03) (13K0579-01) Water Sampled: 10/10/13 12:30 Received: 11/07/13 16:00											
Salinity	9.5	2.0	2.0		g/kg	1	AK31034	11/10/13 14:35	11/10/13 14:51	SM2520B	T-13
Pond 9 DN R-002B (REF#13J0875-04) (13K0579-02) Water Sampled: 10/10/13 12:35 Received: 11/07/13 16:00											
Salinity	8.0	2.0	2.0		g/kg	1	AK31034	11/10/13 14:35	11/10/13 14:51	SM2520B	T-13
Pond 17 DN R-002D (REF#13J0875-07) (13K0579-03) Water Sampled: 10/10/13 13:15 Received: 11/07/13 16:00											
Salinity	8.6	2.0	2.0		g/kg	1	AK31034	11/10/13 14:35	11/10/13 14:51	SM2520B	T-13
Downstream (REF#13J0875-08) (13K0579-04) Water Sampled: 10/10/13 14:00 Received: 11/07/13 16:00											
Salinity	8.2	2.0	2.0		g/kg	1	AK31034	11/10/13 14:35	11/10/13 14:51	SM2520B	T-13
Duplicate (REF#13J0875-09) (13K0579-05) Water Sampled: 10/10/13 14:15 Received: 11/07/13 16:00											
Salinity	8.2	2.0	2.0		g/kg	1	AK31034	11/10/13 14:35	11/10/13 14:51	SM2520B	T-13

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/18/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/18/13 14:54

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/18/13 14:54

Notes and Definitions

T-13	Hold time not specified in method.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/18/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sean Foley@Alpha Labs

From: "Robbie Phillips (Alpha Labs)" <robbie@alpha-labs.com>
To: "Sean Foley" <sfoley@alpha-labs.com>
Sent: Thursday, November 07, 2013 2:35 PM
Attach: Pages from Sampling Weekly 2013-10-10.pdf
Subject: Fw: Weekly Sampling on 10/10
Can you work the highlighted out below?

From: Wegmann, George
Sent: Thursday, November 07, 2013 1:06 PM
To: Robbie Phillips (Alpha Labs)
Subject: RE: Weekly Sampling on 10/10

Looking at this again, we omitted salinity from the RW samples. Would it be possible to run salinity for the five samples that we also ran hardness on? Thanks for your help.

From: Robbie Phillips (Alpha Labs) [mailto:robbie@alpha-labs.com]
Sent: Tuesday, November 05, 2013 8:20 AM
To: Wegmann, George
Subject: Re: Weekly Sampling on 10/10

TDS and Chloride logged in and being analyzed. Thanks.

Robbie

From: Wegmann, George
Sent: Monday, November 04, 2013 3:24 PM
To: mailto:robbie@alpha-labs.com
Subject: Weekly Sampling on 10/10

Hi Robbie, for the weekly sampling on 10/10/13, we did not include TDS and chloride for the effluent samples. I know we are past holdtime, but if you still have the samples could you still run?

Thanks,
George



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

18 November 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K0569

Enclosed are the results of analyses for samples received by the laboratory on 11/07/13 22:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

11/18/13 11:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M001	13K0569-01	Water	11/07/13 09:35	11/07/13 22:45
Pond 9 EFF M-002	13K0569-02	Water	11/07/13 12:30	11/07/13 22:45
Pond 9 UP R-002B	13K0569-03	Water	11/07/13 12:40	11/07/13 22:45
Pond 9 DN R-002B	13K0569-04	Water	11/07/13 12:50	11/07/13 22:45
Pond 13B EFF M-003	13K0569-05	Water	11/07/13 11:30	11/07/13 22:45
Pond 17 EFF M004	13K0569-06	Water	11/07/13 13:20	11/07/13 22:45
Pond 17 DN R 002D	13K0569-07	Water	11/07/13 13:30	11/07/13 22:45

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

11/18/13 11:39

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit	Units							
Pond 4A EFF M001 (13K0569-01) Water Sampled: 11/07/13 09:35 Received: 11/07/13 22:45											
Total Dissolved Solids	980	5.0	10	mg/l	1	AK31227	11/12/13 09:30	11/15/13 08:30	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AK30822	11/08/13 13:00	11/08/13 17:00	SM2540F		U
Pond 9 EFF M-002 (13K0569-02) Water Sampled: 11/07/13 12:30 Received: 11/07/13 22:45											
Total Dissolved Solids	1000	5.0	10	mg/l	1	AK31227	11/12/13 09:30	11/15/13 08:30	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AK30822	11/08/13 13:00	11/08/13 17:00	SM2540F		U
Pond 9 UP R-002B (13K0569-03) Water Sampled: 11/07/13 12:40 Received: 11/07/13 22:45											
Total Dissolved Solids	2100	5.0	10	mg/l	1	AK31227	11/12/13 09:30	11/15/13 08:30	SM2540C		
Pond 9 DN R-002B (13K0569-04) Water Sampled: 11/07/13 12:50 Received: 11/07/13 22:45											
Total Dissolved Solids	1100	5.0	10	mg/l	1	AK31227	11/12/13 09:30	11/15/13 08:30	SM2540C		
Pond 13B EFF M-003 (13K0569-05) Water Sampled: 11/07/13 11:30 Received: 11/07/13 22:45											
Total Dissolved Solids	1600	5.0	10	mg/l	1	AK31227	11/12/13 09:30	11/15/13 08:30	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AK30822	11/08/13 13:00	11/08/13 17:00	SM2540F		U
Pond 17 EFF M004 (13K0569-06) Water Sampled: 11/07/13 13:20 Received: 11/07/13 22:45											
Total Dissolved Solids	1700	5.0	10	mg/l	1	AK31227	11/12/13 09:30	11/15/13 08:30	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AK30822	11/08/13 13:00	11/08/13 17:00	SM2540F		U
Pond 17 DN R 002D (13K0569-07) Water Sampled: 11/07/13 13:30 Received: 11/07/13 22:45											
Total Dissolved Solids	1400	5.0	10	mg/l	1	AK31227	11/12/13 09:30	11/15/13 08:30	SM2540C		

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140
Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-73109-914

Reported:
11/18/13 11:39

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M001 (13K0569-01) Water Sampled: 11/07/13 09:35 Received: 11/07/13 22:45											
Chloride	69	0.60	10		mg/l	20	AK30901	11/09/13 11:09	11/10/13 00:59	EPA 300.0	
Pond 9 EFF M-002 (13K0569-02) Water Sampled: 11/07/13 12:30 Received: 11/07/13 22:45											
Chloride	98	0.75	12		mg/l	25	AK30901	11/09/13 11:09	11/10/13 01:14	EPA 300.0	
Pond 9 UP R-002B (13K0569-03) Water Sampled: 11/07/13 12:40 Received: 11/07/13 22:45											
Chloride	110	1.5	25		mg/l	50	AK30901	11/09/13 11:09	11/10/13 01:29	EPA 300.0	
Pond 9 DN R-002B (13K0569-04) Water Sampled: 11/07/13 12:50 Received: 11/07/13 22:45											
Chloride	91	0.75	12		mg/l	25	AK30901	11/09/13 11:09	11/10/13 01:44	EPA 300.0	
Pond 13B EFF M-003 (13K0569-05) Water Sampled: 11/07/13 11:30 Received: 11/07/13 22:45											
Chloride	63	0.75	12		mg/l	25	AK30901	11/09/13 11:09	11/10/13 02:00	EPA 300.0	
Pond 17 EFF M004 (13K0569-06) Water Sampled: 11/07/13 13:20 Received: 11/07/13 22:45											
Chloride	110	0.15	2.5		mg/l	5	AK30901	11/09/13 11:09	11/10/13 02:15	EPA 300.0	
Pond 17 DN R 002D (13K0569-07) Water Sampled: 11/07/13 13:30 Received: 11/07/13 22:45											
Chloride	110	0.60	10		mg/l	20	AK30901	11/09/13 11:09	11/10/13 02:30	EPA 300.0	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

11/18/13 11:39

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AK31227 - General Preparation

Blank (AK31227-BLK1)

Prepared: 11/12/13 Analyzed: 11/15/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AK31227-DUP1)

Source: 13K0484-01

Prepared: 11/12/13 Analyzed: 11/15/13

Total Dissolved Solids	295	5.0	10	mg/l		286			3.10	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AK31227-DUP2)

Source: 13K0569-05

Prepared: 11/12/13 Analyzed: 11/15/13

Total Dissolved Solids	1600	5.0	10	mg/l		1600			0.250	30	
------------------------	------	-----	----	------	--	------	--	--	-------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Bruce L. Gove
Laboratory Director

11/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

11/18/13 11:39

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK30901 - General Preparation											
Blank (AK30901-BLK1) Prepared & Analyzed: 11/09/13											
Chloride	ND	0.030	0.50	mg/l							U
LCS (AK30901-BS1) Prepared & Analyzed: 11/09/13											
Chloride	11.1	0.030	0.50	mg/l	11.1		99.5	90-110			
Duplicate (AK30901-DUP1) Source: 13K0338-01 Prepared & Analyzed: 11/09/13											
Chloride	3.57	0.030	0.50	mg/l		3.51			1.58	20	
Matrix Spike (AK30901-MS1) Source: 13K0338-01 Prepared & Analyzed: 11/09/13											
Chloride	14.9	0.060	1.0	mg/l	11.1	3.51	102	80-120			
Matrix Spike (AK30901-MS2) Source: 13J1937-01 Prepared: 11/09/13 Analyzed: 11/10/13											
Chloride	36.8	0.15	2.5	mg/l	11.1	26.3	94.8	80-120			
Matrix Spike Dup (AK30901-MSD1) Source: 13K0338-01 Prepared & Analyzed: 11/09/13											
Chloride	14.7	0.060	1.0	mg/l	11.1	3.51	101	80-120	1.04	20	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Bruce L. Gove
Laboratory Director

11/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

11/18/13 11:39

Notes and Definitions

U	Analyte included in analysis, but not detected at or above MDL.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

11/18/2013



Golder Associates CHAIN OF CUSTODY

13K0569

Page 1 of 1

Quotation No.

Temp'd

PROJECT NO.: 063-73109-914		SITE NAME: Lehigh Weekly S&G Permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): J. SHARKEY (printed) / Sharkey (signature)		CONTRACT LABORATORY: Alpha STANDARD		Container Info		EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample I.D.	Lab I.D.	Collection		Type/Vol.	Filter	Preserv.	Remarks
		Date	Time				
Pond 4A EFF M001		11-7-13	09:35	W			Include J. Flueys
Pond 9 EFF M-002			12:30				
Pond 9 of R-002B			12:40				
Pond 9 of R-002B			12:50				
Pond 13B EFF M-003			11:30				
Pond 17 EFF M004			13:20				
Pond 17 DN R-002D			3:30				
				Cont. Qty.	8		
Relinquished by (signature): / Sharkey 11-07-13 14:00		Received by (signature): / [Signature]		Date/Time: 11-6-13 1441		SEND RESULTS TO: Attn: George Weyman Greg Krapp Golder Associates Inc. chow yif 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	
Relinquished by (signature): / [Signature]		Received by (signature): / [Signature]		Date/Time: 11-7-13 2015			
Relinquished by (signature): / [Signature]		Received by (signature): / [Signature]		Date/Time: 11-7-13 2241			



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

18 November 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K0643

Enclosed are the results of analyses for samples received by the laboratory on 11/11/13 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 0637109914

Reported:

11/18/13 13:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 Composite	13K0643-01	Water	11/08/13 10:00	11/11/13 21:40
Pond 13B Composite	13K0643-02	Water	11/08/13 10:45	11/11/13 21:40
Pond 9 Composite	13K0643-03	Water	11/08/13 11:15	11/11/13 21:40

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 0637109914

Reported:

11/18/13 13:25

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 Composite (13K0643-01) Water Sampled: 11/08/13 10:00 Received: 11/11/13 21:40											
Total Suspended Solids	2.8	0.30	0.50		mg/l	1	AK31245	11/12/13 16:48	11/15/13 12:21	SM2540D	
Pond 13B Composite (13K0643-02) Water Sampled: 11/08/13 10:45 Received: 11/11/13 21:40											
Total Suspended Solids	7.4	0.30	0.50		mg/l	1	AK31245	11/12/13 16:48	11/15/13 12:21	SM2540D	
Pond 9 Composite (13K0643-03) Water Sampled: 11/08/13 11:15 Received: 11/11/13 21:40											
Total Suspended Solids	8.4	0.30	0.50		mg/l	1	AK31245	11/12/13 16:48	11/15/13 12:21	SM2540D	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 0637109914

Reported:

11/18/13 13:25

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AK31245 - General Preparation

Blank (AK31245-BLK1)

Prepared: 11/12/13 Analyzed: 11/15/13

Total Suspended Solids ND 0.30 0.50 mg/l U

Duplicate (AK31245-DUP1)

Source: 13K0428-01

Prepared: 11/12/13 Analyzed: 11/15/13

Total Suspended Solids 248 0.30 0.50 mg/l 272 9.23 30

Duplicate (AK31245-DUP2)

Source: 13K0476-01

Prepared: 11/12/13 Analyzed: 11/15/13

Total Suspended Solids 268 0.30 0.50 mg/l 268 0.00 30

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove signature

Bruce L. Gove Laboratory Director

11/18/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 0637109914

Reported:

11/18/13 13:25

Notes and Definitions

U	Analyte included in analysis, but not detected at or above MDL.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

11/18/2013

13K0643

Golder Associates CHAIN OF CUSTODY



Page 1 of 1
Quotation No. Invrtd Lehigh

ANALYSES

PROJECT NO.: 063709 914
SITE NAME: Lehigh

SAMPLER(S): Jeff Under
(printed) Jeff Under
(signature)

CONTRACT LABORATORY: Alpha Standard
TURN-AROUND TIME:

Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Container Info		
		Date	Time			Type/Vol.	Filter	Preserv.

<u>pond 4 composite</u>	<u>11/19</u>	<u>1000</u>	<u>W</u>	<u>IL poly</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>X</u>
<u>pond 13b composite</u>	<u>10/15</u>	<u>↓</u>	<u>↓</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>X</u>	<u>X</u>
<u>pond 9 composite</u>	<u>11/15</u>	<u>↓</u>	<u>↓</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>X</u>	<u>X</u>

EDD required? Yes No

EDF required? Yes No

Cont. Qty.	Remarks
<u>1</u>	<u>include J</u>
<u>1</u>	<u>flaps.</u>
<u>1</u>	

SEND RESULTS TO:
 Attn: George Weymann
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224

Date/Time: 11/8 1445
 Date/Time: 11-13 1835
 Date/Time: 11-13 2140

Received by (signature): [Signature]
 Received by (signature): [Signature]
 Received by (signature): [Signature]

Relinquished by (signature): [Signature]
 Relinquished by (signature): [Signature]
 Relinquished by (signature): [Signature]



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

20 November 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K0663

Enclosed are the results of analyses for samples received by the laboratory on 11/11/13 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/20/13 10:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 17 Composite	13K0663-01	Water	11/09/13 08:45	11/11/13 21:40

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/20/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/20/13 10:29

**Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 17 Composite (13K0663-01) Water Sampled: 11/09/13 08:45 Received: 11/11/13 21:40											
Total Suspended Solids	2.4	0.30	0.50		mg/l	1	AK31416	11/14/13 08:09	11/18/13 09:30	SM2540D	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/20/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/20/13 10:29

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AK31416 - General Preparation

Blank (AK31416-BLK1)

Prepared: 11/14/13 Analyzed: 11/18/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AK31416-DUP1)

Source: 13K0679-01

Prepared: 11/14/13 Analyzed: 11/18/13

Total Suspended Solids	304	0.30	0.50	mg/l		304			0.00	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Duplicate (AK31416-DUP2)

Source: 13K0685-01

Prepared: 11/14/13 Analyzed: 11/18/13

Total Suspended Solids	284	0.30	0.50	mg/l		276			2.86	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/20/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

11/20/13 10:29

Notes and Definitions

U	Analyte included in analysis, but not detected at or above MDL.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/20/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Golder Associates CHAIN OF CUSTODY

13K0663
Temp 18

Quotation No.

PROJECT NO.: 063-7109-914		SITE NAME: Lehigh SEG Permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): IAN SHARVEI <small>(print name)</small>		1 SKINNY <small>(signature)</small>		in K			
CONTRACT LABORATORY: TURN-AROUND TIME:		Alpha STANDARD					
Sample I.D.	Lab I.D.	Collection		Type/Vol.	Filter	Preserv.	Remarks
		Date	Time				
Pond 17 Composite		11/04/13	08:45	N			1 include flags
Relinquished by (signature): I. Sharvei		Received by (signature): Robyn Santilon		Date/Time: 11/11 09:04		SEND RESULTS TO: Attn: George Wiegman Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	
Relinquished by (signature): Robyn Santilon		Received by (signature): R. Wiegman		Date/Time: 11-11-13 1835			
Relinquished by (signature): Robyn Santilon		Received by (signature): IAN SHARVEI		Date/Time: 11/11/13 2140			



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

27 November 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K0956

Enclosed are the results of analyses for samples received by the laboratory on 11/14/13 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly/ 063-73109-914

Reported:

11/27/13 10:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M001	13K0956-01	Water	11/14/13 10:00	11/14/13 21:45
Pond 13 EFF M-003	13K0956-02	Water	11/14/13 11:30	11/14/13 21:45
Pond 9 EFF M-002	13K0956-03	Water	11/14/13 12:10	11/14/13 21:45
Pond 9 UP R-001B	13K0956-04	Water	11/14/13 12:30	11/14/13 21:45
Pond 9 DN R-002B	13K0956-05	Water	11/14/13 12:50	11/14/13 21:45
Pond 17 EFF M-004	13K0956-06	Water	11/14/13 13:20	11/14/13 21:45
Pond 17 DN R-0020	13K0956-07	Water	11/14/13 13:45	11/14/13 21:45

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/27/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140
Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: Weekly/ 063-73109-914

Reported:
11/27/13 10:47

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit	Units							
Pond 4A EFF M001 (13K0956-01) Water Sampled: 11/14/13 10:00 Received: 11/14/13 21:45											
Total Dissolved Solids	1100	5.0	10	mg/l	1	AK31813	11/18/13 15:30	11/21/13 08:30	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AK31820	11/15/13 14:00	11/15/13 17:00	SM2540F		U
Pond 13 EFF M-003 (13K0956-02) Water Sampled: 11/14/13 11:30 Received: 11/14/13 21:45											
Total Dissolved Solids	1400	5.0	10	mg/l	1	AK31813	11/18/13 15:30	11/21/13 08:30	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AK31820	11/15/13 14:00	11/15/13 17:00	SM2540F		U
Pond 9 EFF M-002 (13K0956-03) Water Sampled: 11/14/13 12:10 Received: 11/14/13 21:45											
Total Dissolved Solids	920	5.0	10	mg/l	1	AK31813	11/18/13 15:30	11/21/13 08:30	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AK31820	11/15/13 14:00	11/15/13 17:00	SM2540F		U
Pond 9 UP R-001B (13K0956-04) Water Sampled: 11/14/13 12:30 Received: 11/14/13 21:45											
Total Dissolved Solids	1500	5.0	10	mg/l	1	AK31813	11/18/13 15:30	11/21/13 08:30	SM2540C		
Pond 9 DN R-002B (13K0956-05) Water Sampled: 11/14/13 12:50 Received: 11/14/13 21:45											
Total Dissolved Solids	970	5.0	10	mg/l	1	AK31813	11/18/13 15:30	11/21/13 08:30	SM2540C		
Pond 17 EFF M-004 (13K0956-06) Water Sampled: 11/14/13 13:20 Received: 11/14/13 21:45											
Total Dissolved Solids	1300	5.0	10	mg/l	1	AK31813	11/18/13 15:30	11/21/13 08:30	SM2540C		
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AK31820	11/15/13 14:00	11/15/13 17:00	SM2540F		U
Pond 17 DN R-0020 (13K0956-07) Water Sampled: 11/14/13 13:45 Received: 11/14/13 21:45											
Total Dissolved Solids	1200	5.0	10	mg/l	1	AK31813	11/18/13 15:30	11/21/13 08:30	SM2540C		

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/27/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly/ 063-73109-914

Reported:

11/27/13 10:47

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M001 (13K0956-01) Water Sampled: 11/14/13 10:00 Received: 11/14/13 21:45											
Chloride	72	0.75	12		mg/l	25	AK31511	11/15/13 09:34	11/15/13 22:32	EPA 300.0	
Pond 13 EFF M-003 (13K0956-02) Water Sampled: 11/14/13 11:30 Received: 11/14/13 21:45											
Chloride	59	0.75	12		mg/l	25	AK31511	11/15/13 09:34	11/15/13 22:47	EPA 300.0	
Pond 9 EFF M-002 (13K0956-03) Water Sampled: 11/14/13 12:10 Received: 11/14/13 21:45											
Chloride	140	0.75	12		mg/l	25	AK31511	11/15/13 09:34	11/15/13 23:02	EPA 300.0	
Pond 9 UP R-001B (13K0956-04) Water Sampled: 11/14/13 12:30 Received: 11/14/13 21:45											
Chloride	110	0.75	12		mg/l	25	AK31511	11/15/13 09:34	11/15/13 23:47	EPA 300.0	
Pond 9 DN R-002B (13K0956-05) Water Sampled: 11/14/13 12:50 Received: 11/14/13 21:45											
Chloride	130	0.75	12		mg/l	25	AK31511	11/15/13 09:34	11/16/13 00:02	EPA 300.0	
Pond 17 EFF M-004 (13K0956-06) Water Sampled: 11/14/13 13:20 Received: 11/14/13 21:45											
Chloride	93	0.75	12		mg/l	25	AK31511	11/15/13 09:34	11/16/13 00:17	EPA 300.0	
Pond 17 DN R-0020 (13K0956-07) Water Sampled: 11/14/13 13:45 Received: 11/14/13 21:45											
Chloride	130	0.75	12		mg/l	25	AK31511	11/15/13 09:34	11/16/13 00:32	EPA 300.0	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/27/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly/ 063-73109-914

Reported:

11/27/13 10:47

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AK31813 - General Preparation

Blank (AK31813-BLK1)

Prepared: 11/18/13 Analyzed: 11/21/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AK31813-DUP1)

Source: 13K0941-05

Prepared: 11/18/13 Analyzed: 11/21/13

Total Dissolved Solids	780	5.0	10	mg/l		712			9.12	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AK31813-DUP2)

Source: 13K0956-07

Prepared: 11/18/13 Analyzed: 11/21/13

Total Dissolved Solids	1010	5.0	10	mg/l		1180			16.1	30	
------------------------	------	-----	----	------	--	------	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Bruce L. Gove
Laboratory Director

11/27/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly/ 063-73109-914

Reported:

11/27/13 10:47

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK31511 - General Preparation											
Blank (AK31511-BLK1)					Prepared & Analyzed: 11/15/13						
Chloride	ND	0.030	0.50	mg/l							U
LCS (AK31511-BS1)					Prepared & Analyzed: 11/15/13						
Chloride	11.0	0.030	0.50	mg/l	11.1		98.6	90-110			
Duplicate (AK31511-DUP1)					Source: 13K0923-04 Prepared & Analyzed: 11/15/13						
Chloride	20.1	0.30	5.0	mg/l		19.9			1.15	20	
Matrix Spike (AK31511-MS1)					Source: 13K0923-04 Prepared & Analyzed: 11/15/13						
Chloride	31.0	0.30	5.0	mg/l	11.1	19.9	99.8	80-120			
Matrix Spike (AK31511-MS2)					Source: 13K0941-01 Prepared & Analyzed: 11/15/13						
Chloride	29.9	0.15	2.5	mg/l	11.1	18.6	102	80-120			
Matrix Spike Dup (AK31511-MSD1)					Source: 13K0923-04 Prepared & Analyzed: 11/15/13						
Chloride	31.2	0.30	5.0	mg/l	11.1	19.9	102	80-120	0.751	20	

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove
Laboratory Director

11/27/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly/ 063-73109-914

Reported:

11/27/13 10:47

Notes and Definitions

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

11/27/2013



Golder Associates CHAIN OF CUSTODY

13K0956

Page 1 of 1

Quotation No.

PROJECT NO.: 063-73109-914		SITE NAME: Lehigh Weekly SEG Permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): SHARKEY (printed) / Sharkey (signature)		CONTRACT LABORATORY: ALDHA		CONTAINER INFO		EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
TURN-AROUND TIME: STANDARD		Collection		Type/Vol.	Filter	Preserv.	Remarks
Sample I.D.	Lab I.D.	Date	Time	Matrix	Depth		
Pond 4 EFF M-001		11-14-13	10:00	W			1
Pond 13 EFF M-003			11:30				1
Pond 9 EFF M-002			12:10				1
Pond 9 VR R-001B			12:30				1
Pond 9 DN R-002B			12:50				1
Pond 17 EFF M-004			13:20				1
Pond 17 DN R-002D			13:45				1
							7

SS, TDS, chloride
TDS, chloride

Relinquished by: (signature) *[Signature]* 11-14-13
 Relinquished by: (signature) *[Signature]*
 Relinquished by: (signature) *[Signature]*

Received by: (signature) *[Signature]*
 Received by: (signature) *[Signature]*
 Received by: (signature) *[Signature]*

SEND RESULTS TO:
 Attn: George Wegmann Greg Knopp
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224

Date/Time: 11-14-13 1452
 Date/Time: 11-14-13 1851
 Date/Time: 11-14-13 2145



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

27 November 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K1011

Enclosed are the results of analyses for samples received by the laboratory on 11/18/13 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

11/27/13 11:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 Comp	13K1011-01	Water	11/15/13 09:05	11/18/13 21:40
Pond 13 Comp	13K1011-02	Water	11/15/13 10:20	11/18/13 21:40
Pond 9 Comp	13K1011-03	Water	11/15/13 10:45	11/18/13 21:40
Pond 17 Comp	13K1011-04	Water	11/15/13 11:15	11/18/13 21:40

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/27/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

11/27/13 11:43

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 Comp (13K1011-01) Water Sampled: 11/15/13 09:05 Received: 11/18/13 21:40											
Total Suspended Solids	1.0	0.30	0.50		mg/l	1	AK32062	11/20/13 14:07	11/22/13 14:45	SM2540D	
Pond 13 Comp (13K1011-02) Water Sampled: 11/15/13 10:20 Received: 11/18/13 21:40											
Total Suspended Solids	220	0.30	0.50		mg/l	1	AK32062	11/20/13 14:07	11/22/13 14:45	SM2540D	
Pond 9 Comp (13K1011-03) Water Sampled: 11/15/13 10:45 Received: 11/18/13 21:40											
Total Suspended Solids	4.7	0.30	0.50		mg/l	1	AK32062	11/20/13 14:07	11/22/13 14:45	SM2540D	
Pond 17 Comp (13K1011-04) Water Sampled: 11/15/13 11:15 Received: 11/18/13 21:40											
Total Suspended Solids	1.6	0.30	0.50		mg/l	1	AK32062	11/20/13 14:07	11/22/13 14:45	SM2540D	

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

11/27/2013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

11/27/13 11:43

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AK32062 - General Preparation

Blank (AK32062-BLK1)

Prepared: 11/20/13 Analyzed: 11/22/13

Total Suspended Solids	0.400	0.30	0.50	mg/l							J
------------------------	-------	------	------	------	--	--	--	--	--	--	---

Duplicate (AK32062-DUP1)

Source: 13K0996-02

Prepared: 11/20/13 Analyzed: 11/22/13

Total Suspended Solids	240	0.30	0.50	mg/l		233			2.83	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Duplicate (AK32062-DUP2)

Source: 13K1021-01

Prepared: 11/20/13 Analyzed: 11/22/13

Total Suspended Solids	2010	0.30	0.50	mg/l		1990			1.43	30	
------------------------	------	------	------	------	--	------	--	--	------	----	--

Alpha Analytical Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce L. Gove

Bruce L. Gove
Laboratory Director

11/27/2013



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

11/27/13 11:43

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alpha Analytical Laboratories, Inc.

Bruce L. Gove
Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

11/27/2013



Golder Associates CHAIN OF CUSTODY

13K1011 6.00
prop

Quotation No.

PROJECT NO.: 563-73109-914		SITE NAME: Leigh Weekly SGA Permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): L. SHARKEY (printed)		L. Sharkey (signature)		TSS (Composite)			
CONTRACT LABORATORY:				Container Info			
TURN-AROUND TIME:				Type/Vol.	Filter	Preserv.	
Sample I.D.	Lab I.D.	Collection Date Time		Matrix	Depth	Remarks	
Pond 4 Camp		11-15-13	09:05	W		1	include flags
Pond 13 Camp			10:20			1	
Pond 9 Camp			10:45			1	
Pond 17 Camp			11:15			1	
Relinquished by (signature): Dan [Signature]		Received by (signature): Dan [Signature]		Date/Time: 11/15/13 14:50		SEND RESULTS TO: Attn: George Neaman Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	
Relinquished by (signature): Dan [Signature]		Received by (signature): DU [Signature]		Date/Time: 11/15/13 17:15			
Relinquished by (signature): DU [Signature]		Received by (signature): LARR-LAWRI		Date/Time: 11/18/13 21:40			



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

09 December 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K1380

Enclosed are the results of analyses for samples received by the laboratory on 11/20/13 21:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tabatha J. Pryor For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/09/13 13:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13K1380-01	Water	11/20/13 10:30	11/20/13 21:50
Pond 9 EFF M-002	13K1380-02	Water	11/20/13 11:45	11/20/13 21:50
Pond 9 UP R-001B	13K1380-03	Water	11/20/13 11:55	11/20/13 21:50
Pond 9 DN R-002B	13K1380-04	Water	11/20/13 12:00	11/20/13 21:50
Pond 17 EFF M-004	13K1380-05	Water	11/20/13 13:00	11/20/13 21:50
Pond 17 DN R-002D	13K1380-06	Water	11/20/13 13:10	11/20/13 21:50

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140	Project Manager: Chow Yip	Reported:
Lehigh Southwest Cement Company	Project: Lehigh S & G Permit	12/09/13 13:00
PO Box 660140 / Attention SSC AP - CEMENT	Project Number: 063-7109-914	

**Metals by EPA 200 Series Methods
 Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 UP R-001B (13K1380-03) Water Sampled: 11/20/13 11:55 Received: 11/20/13 21:50											
Calcium	220	0.010	1.0		mg/l	1	AK32721	11/27/13 12:00	12/02/13 16:35	EPA 200.7	
Magnesium	69	0.0080	1.0		"	"	"	"	"	"	
Pond 9 DN R-002B (13K1380-04) Water Sampled: 11/20/13 12:00 Received: 11/20/13 21:50											
Calcium	140	0.010	1.0		mg/l	1	AK32721	11/27/13 12:00	12/02/13 16:39	EPA 200.7	
Magnesium	44	0.0080	1.0		"	"	"	"	"	"	
Pond 17 DN R-002D (13K1380-06) Water Sampled: 11/20/13 13:10 Received: 11/20/13 21:50											
Calcium	200	0.010	1.0		mg/l	1	AK32721	11/27/13 12:00	12/02/13 16:53	EPA 200.7	
Magnesium	29	0.0080	1.0		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140
 Lehigh Southwest Cement Company
 PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
 Project: Lehigh S & G Permit
 Project Number: 063-7109-914

Reported:
 12/09/13 13:00

Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		MDL	Limit							
Pond 4A EFF M-001 (13K1380-01) Water Sampled: 11/20/13 10:30 Received: 11/20/13 21:50										
Oil & Grease (HEM)	2.0	0.80	1.4	mg/l	1	AL30332	12/03/13 08:00	12/06/13 11:45	EPA 1664A	
Total Dissolved Solids	950	5.0	10	"	"	AK32204	11/22/13 08:30	11/26/13 14:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AK32542	11/21/13 13:00	11/21/13 17:00	SM2540F	U
Pond 9 EFF M-002 (13K1380-02) Water Sampled: 11/20/13 11:45 Received: 11/20/13 21:50										
Oil & Grease (HEM)	0.80	0.80	1.4	mg/l	1	AL30332	12/03/13 08:00	12/06/13 11:45	EPA 1664A	J
Total Dissolved Solids	880	5.0	10	"	"	AK32204	11/22/13 08:30	11/26/13 14:00	SM2540C	
Total Settleable Solids	0.30	0.10	0.10	ml/l	"	AK32542	11/21/13 13:00	11/21/13 17:00	SM2540F	
Pond 9 UP R-001B (13K1380-03) Water Sampled: 11/20/13 11:55 Received: 11/20/13 21:50										
Salinity	ND	2.0	2.0	g/kg	1	AK32665	11/26/13 18:49	11/26/13 19:00	SM2520B	U
Total Dissolved Solids	1500	5.0	10	mg/l	"	AK32204	11/22/13 08:30	11/26/13 14:00	SM2540C	
Hardness, Total	820	1	5	"	"	AK32721	11/27/13 12:00	12/02/13 16:35	SM2340B	
Pond 9 DN R-002B (13K1380-04) Water Sampled: 11/20/13 12:00 Received: 11/20/13 21:50										
Salinity	ND	2.0	2.0	g/kg	1	AK32665	11/26/13 18:49	11/26/13 19:00	SM2520B	U
Total Dissolved Solids	1000	5.0	10	mg/l	"	AK32204	11/22/13 08:30	11/26/13 14:00	SM2540C	
Hardness, Total	525	1	5	"	"	AK32721	11/27/13 12:00	12/02/13 16:39	SM2340B	
Pond 17 EFF M-004 (13K1380-05) Water Sampled: 11/20/13 13:00 Received: 11/20/13 21:50										
Oil & Grease (HEM)	1.1	0.80	1.4	mg/l	1	AL30332	12/03/13 08:00	12/06/13 11:45	EPA 1664A	J
Total Dissolved Solids	1300	5.0	10	"	"	AK32204	11/22/13 08:30	11/26/13 14:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AK32542	11/21/13 13:00	11/21/13 17:00	SM2540F	U
Pond 17 DN R-002D (13K1380-06) Water Sampled: 11/20/13 13:10 Received: 11/20/13 21:50										
Salinity	ND	2.0	2.0	g/kg	1	AK32665	11/26/13 18:49	11/26/13 19:00	SM2520B	U
Total Dissolved Solids	1300	5.0	10	mg/l	"	AK32204	11/22/13 08:30	11/26/13 14:00	SM2540C	
Hardness, Total	623	1	5	"	"	AK32721	11/27/13 12:00	12/02/13 16:53	SM2340B	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140	Project Manager: Chow Yip	Reported:
Lehigh Southwest Cement Company	Project: Lehigh S & G Permit	12/09/13 13:00
PO Box 660140 / Attention SSC AP - CEMENT	Project Number: 063-7109-914	

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13K1380-01) Water Sampled: 11/20/13 10:30 Received: 11/20/13 21:50											
Chloride	78	0.30	5.0		mg/l	10	AK32531	11/25/13 12:45	11/25/13 13:43	EPA 300.0	
Pond 9 EFF M-002 (13K1380-02) Water Sampled: 11/20/13 11:45 Received: 11/20/13 21:50											
Chloride	120	0.60	10		mg/l	20	AK32531	11/25/13 12:45	11/25/13 13:58	EPA 300.0	
Pond 9 UP R-001B (13K1380-03) Water Sampled: 11/20/13 11:55 Received: 11/20/13 21:50											
Chloride	120	0.60	10		mg/l	20	AK32531	11/25/13 12:45	11/25/13 14:13	EPA 300.0	
Pond 9 DN R-002B (13K1380-04) Water Sampled: 11/20/13 12:00 Received: 11/20/13 21:50											
Chloride	120	0.60	10		mg/l	20	AK32531	11/25/13 12:45	11/25/13 14:28	EPA 300.0	
Pond 17 EFF M-004 (13K1380-05) Water Sampled: 11/20/13 13:00 Received: 11/20/13 21:50											
Chloride	80	0.60	10		mg/l	20	AK32531	11/25/13 12:45	11/25/13 14:43	EPA 300.0	
Pond 17 DN R-002D (13K1380-06) Water Sampled: 11/20/13 13:10 Received: 11/20/13 21:50											
Chloride	100	0.75	12		mg/l	25	AK32531	11/25/13 12:45	11/25/13 14:58	EPA 300.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140	Project Manager: Chow Yip	Reported:
Lehigh Southwest Cement Company	Project: Lehigh S & G Permit	12/09/13 13:00
PO Box 660140 / Attention SSC AP - CEMENT	Project Number: 063-7109-914	

Metals by EPA 200 Series Methods - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK32721 - Metals Digest											
Blank (AK32721-BLK1) Prepared: 11/27/13 Analyzed: 12/02/13											
Calcium	ND	0.010	1.0	mg/l							U
Magnesium	ND	0.0080	1.0	"							U
LCS (AK32721-BS1) Prepared: 11/27/13 Analyzed: 12/02/13											
Calcium	5.34	0.010	1.0	mg/l	6.00		89.1	85-115			
Magnesium	6.92	0.0080	1.0	"	8.00		86.5	85-115			
Duplicate (AK32721-DUP1) Source: 13K1331-01 Prepared: 11/27/13 Analyzed: 12/02/13											
Calcium	21.6	0.010	1.0	mg/l		21.9			1.21	20	
Magnesium	9.50	0.0080	1.0	"		9.50			0.0513	20	
Matrix Spike (AK32721-MS1) Source: 13K1331-01 Prepared: 11/27/13 Analyzed: 12/02/13											
Calcium	28.5	0.010	1.0	mg/l	6.00	21.9	110	70-130			
Magnesium	18.0	0.0080	1.0	"	8.00	9.50	106	70-130			
Matrix Spike (AK32721-MS2) Source: 13K1385-02 Prepared: 11/27/13 Analyzed: 12/02/13											
Calcium	13.6	0.010	1.0	mg/l	6.00	7.93	94.5	70-130			
Magnesium	12.9	0.0080	1.0	"	8.00	4.62	103	70-130			
Matrix Spike Dup (AK32721-MSD1) Source: 13K1331-01 Prepared: 11/27/13 Analyzed: 12/03/13											
Calcium	28.8	0.010	1.0	mg/l	6.00	21.9	115	70-130	1.17	20	
Magnesium	18.5	0.0080	1.0	"	8.00	9.50	113	70-130	3.05	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140	Project Manager: Chow Yip	Reported:
Lehigh Southwest Cement Company	Project: Lehigh S & G Permit	12/09/13 13:00
PO Box 660140 / Attention SSC AP - CEMENT	Project Number: 063-7109-914	

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AK32204 - General Preparation

Blank (AK32204-BLK1)		Prepared: 11/22/13 Analyzed: 11/26/13									
Total Dissolved Solids	ND	5.0	10	mg/l							U

Duplicate (AK32204-DUP1)		Source: 13K1331-01 Prepared: 11/22/13 Analyzed: 11/26/13									
Total Dissolved Solids	576	5.0	10	mg/l		444			25.9	30	

Duplicate (AK32204-DUP2)		Source: 13K1360-01 Prepared: 11/22/13 Analyzed: 11/26/13									
Total Dissolved Solids	560	5.0	10	mg/l		608			8.22	30	

Batch AK32721 - Metals Digest

Blank (AK32721-BLK1)		Prepared: 11/27/13 Analyzed: 12/02/13									
Hardness, Total	ND	1	5	mg/l							U

Duplicate (AK32721-DUP1)		Source: 13K1331-01 Prepared: 11/27/13 Analyzed: 12/02/13									
Hardness, Total	93	1	5	mg/l		94			0.681	20	

Batch AL30332 - General Preparation

Blank (AL30332-BLK1)		Prepared: 12/03/13 Analyzed: 12/06/13									
Oil & Grease (HEM)	1.20	0.80	1.4	mg/l							J

LCS (AL30332-BS1)		Prepared: 12/03/13 Analyzed: 12/06/13									
Oil & Grease (HEM)	34.1	0.80	1.4	mg/l	40.0		85.2	78-114		18	

LCS Dup (AL30332-BSD1)		Prepared: 12/03/13 Analyzed: 12/06/13									
Oil & Grease (HEM)	32.9	0.80	1.4	mg/l	40.0		82.2	78-114	3.58	18	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140	Project Manager: Chow Yip	Reported:
Lehigh Southwest Cement Company	Project: Lehigh S & G Permit	12/09/13 13:00
PO Box 660140 / Attention SSC AP - CEMENT	Project Number: 063-7109-914	

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL30332 - General Preparation

Matrix Spike (AL30332-MS1)			Source: 13K1381-03				Prepared: 12/03/13	Analyzed: 12/06/13			
Oil & Grease (HEM)	20.2	0.80	1.4	mg/l	20.0	2.60	88.0	78-114		18	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140	Project Manager: Chow Yip	Reported:
Lehigh Southwest Cement Company	Project: Lehigh S & G Permit	12/09/13 13:00
PO Box 660140 / Attention SSC AP - CEMENT	Project Number: 063-7109-914	

Anions by EPA Method 300.0 - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK32531 - General Preparation											
Blank (AK32531-BLK1)					Prepared & Analyzed: 11/25/13						
Chloride	ND	0.030	0.50	mg/l							U
LCS (AK32531-BS1)					Prepared & Analyzed: 11/25/13						
Chloride	11.2	0.030	0.50	mg/l	11.1		101	90-110			
Duplicate (AK32531-DUP1)					Source: 13K1422-01 Prepared & Analyzed: 11/25/13						
Chloride	17.0	0.15	2.5	mg/l		17.0			0.176	20	
Matrix Spike (AK32531-MS1)					Source: 13K1422-01 Prepared & Analyzed: 11/25/13						
Chloride	28.9	0.15	2.5	mg/l	11.1	17.0	106	80-120			
Matrix Spike (AK32531-MS2)					Source: 13K1623-01 Prepared & Analyzed: 11/25/13						
Chloride	27.7	0.060	1.0	mg/l	11.1	16.3	103	80-120			
Matrix Spike Dup (AK32531-MSD1)					Source: 13K1422-01 Prepared & Analyzed: 11/25/13						
Chloride	28.9	0.15	2.5	mg/l	11.1	17.0	107	80-120	0.250	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/09/13 13:00

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Golder Associates CHAIN OF CUSTODY

13K1380

Page 1 of 1
Quotation No. Invoice Lehigh

PROJECT NO.: <u>063-7109-914</u>		SITE NAME: <u>Monthly</u>		ANALYSES		<input type="checkbox"/> EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
SAMPLER(S): <u>David Walter, Jan Sparky (printed) David Caldwell (Signature)</u>		<u>Lehigh STG permit</u>				<input type="checkbox"/> EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
CONTRACT LABORATORY: TURN-AROUND TIME:		Container Info		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><u>TDS, Chloride</u></p> <p><u>SS, TDS, Chloride</u></p> <p><u>Ox6</u></p> <p><u>Hardness, Sulfate</u></p> <p><u>Tot Set Mat</u></p> </div> <div style="width: 45%;"> <p><u>1/2 gal Seal</u></p> <p><u>1L Seal</u></p> <p><u>1 gal</u></p> </div> </div>						
Sample I.D.	Lab I.D.	Collection				Type/Vol.	Filter	Preserv.	Depth	Matrix
		Date	Time							
<u>Pond 9A Eff m-001</u>		<u>11-20-13</u>	<u>1030</u>			<u>W</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>Pond 9 Eff m-002</u>		<u>1145</u>					<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>Pond 9 uR-001B</u>		<u>1155</u>					<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>Pond 9 DN R-002B</u>		<u>1200</u>					<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>Pond 17 Eff m-004</u>		<u>1300</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>Pond 17 DN R-002D</u>		<u>1310</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
						Cont. Qty.		Remarks		
						<u>3</u>		<u>Cancel TSS on</u>		
						<u>3</u>		<u>call Sampler per Kim</u>		
						<u>1</u>		<u>11-26-13</u>		
						<u>1</u>		<u>(Signature)</u>		
						<u>3</u>				
						<u>1</u>				

Relinquished by (signature): David Caldwell

Relinquished by (signature): Jan Sparky

Relinquished by (signature): David Caldwell

Received by (signature): (Signature)

Received by (signature): (Signature)

Received by (signature): (Signature)

Date/Time: 11-20-13 11:35

Date/Time: 11-20-13 14:30

Date/Time: 11-20-13 19:10

Date/Time: 11-20-13 21:50

SEND RESULTS TO:
 Attn: George Wegmann, Greg Knapp,
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224

Chow Kit

Sean Foley@Alpha Labs

From: "Robbie Phillips (Sample Traps)" <robbie@sampletraps.com>
To: "Sean Foley" <sfoley@alpha-labs.com>
Sent: Thursday, November 21, 2013 5:37 PM
Attach: 13K1380 11 21 13 1104_02.PDF
Subject: Fw: Lehigh S & G Permit, 13K1380, CANCEL TSS

-----Original Message-----

From: DeVillier, Kimberly
Sent: Thursday, November 21, 2013 4:12 PM
To: robbie@sampletraps.com
Subject: RE: Lehigh S & G Permit, 13K1380, CANCEL TSS

Hi, Robbie. For work order 13K1380, please cancel Total Suspended Solids analyses for all samples (11/20). Thank you.

Kimberly DeVillier | Geologist | Golder Associates Inc.
425 Lakeside Drive, Sunnyvale, California, USA 94085
T: +1 (408) 220-9223 | D: +1 (408) 220 9245 | F: +1 (408) 220-9224 | E:
Kimberly_DeVillier@golder.com | www.golder.com

Work Safe, Home Safe

This email transmission is confidential and may contain proprietary information for the exclusive use of the intended recipient. Any use, distribution or copying of this transmission, other than by the intended recipient, is strictly prohibited. If you are not the intended recipient, please notify the sender and delete all copies. Electronic media is susceptible to unauthorized modification, deterioration, and incompatibility. Accordingly, the electronic media version of any work product may not be relied upon.

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

Please consider the environment before printing this email.

-----Original Message-----

From: Alpha Labs [<mailto:msgmgr@alpha-labs.com>]
Sent: Thursday, November 21, 2013 11:15 AM
To: DeVillier, Kimberly
Subject: Lehigh S & G Permit, 13K1380, from Alpha Labs, Inc.

Hello,

Your recently submitted samples include a Work Order Summary for your records. Please review and should there be questions or concerns, please do not hesitate to contact us at anytime. Thank you for your business!



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

11 December 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K1476

Enclosed are the results of analyses for samples received by the laboratory on 11/21/13 21:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/11/13 15:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 20 EFF M-005	13K1476-01	Water	11/20/13 14:50	11/21/13 21:50
Pond 21/20 DN	13K1476-02	Water	11/20/13 15:20	11/21/13 21:50
Field Blank	13K1476-03	Water	11/20/13 00:00	11/21/13 21:50



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/11/13 15:15

**Metals by EPA 200 Series Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 21/20 DN (13K1476-02) Water Sampled: 11/20/13 15:20 Received: 11/21/13 21:50											
Calcium	210	0.010	1.0		mg/l	1	AL30532	12/05/13 12:01	12/10/13 18:58	EPA 200.7	
Magnesium	50	0.0080	1.0		"	"	"	"	"	"	



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/11/13 15:15

Metals by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 20 EFF M-005 (13K1476-01) Water Sampled: 11/20/13 14:50 Received: 11/21/13 21:50											
Chromium, hexavalent	0.11	0.0050	0.010		mg/l	1	AL30354	12/03/13 14:00	12/03/13 15:40	SM3500-Cr B	
Mercury	374	2.00	5.00		ng/l	10	AK32548	11/25/13 19:00	12/03/13 15:36	EPA 1631E	
Pond 21/20 DN (13K1476-02) Water Sampled: 11/20/13 15:20 Received: 11/21/13 21:50											
Chromium, hexavalent	ND	0.0050	0.010		mg/l	1	AL30354	12/03/13 14:00	12/03/13 15:40	SM3500-Cr B	U
Mercury	49.6	2.00	5.00		ng/l	10	AK32548	11/25/13 19:00	12/03/13 15:44	EPA 1631E	
Field Blank (13K1476-03) Water Sampled: 11/20/13 00:00 Received: 11/21/13 21:50											
Mercury	ND	0.200	0.500		ng/l	1	AK32548	11/25/13 19:00	12/03/13 15:53	EPA 1631E	U

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/11/13 15:15

**Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 20 EFF M-005 (13K1476-01) Water Sampled: 11/20/13 14:50 Received: 11/21/13 21:50											
Oil & Grease (HEM)	2.6	0.80	1.4		mg/l	1	AL30518	12/05/13 08:00	12/06/13 17:00	EPA 1664A	
Total Dissolved Solids	2100	5.0	10		"	"	AK32534	11/25/13 13:30	12/02/13 08:30	SM2540C	
Total Suspended Solids	1800	0.30	0.50		"	"	AK32658	11/26/13 14:38	12/03/13 12:59	SM2540D	
Total Settleable Solids	10	0.20	0.20		ml/l	2	AK32559	11/22/13 13:00	11/22/13 17:00	SM2540F	
Pond 21/20 DN (13K1476-02) Water Sampled: 11/20/13 15:20 Received: 11/21/13 21:50											
Salinity	ND	2.0	2.0		g/kg	1	AL31033	12/10/13 11:15	12/10/13 11:38	SM2520B	U
Total Dissolved Solids	1400	5.0	10		mg/l	"	AK32534	11/25/13 13:30	12/02/13 08:30	SM2540C	
Hardness, Total	724	1	5		"	"	AL30532	12/05/13 12:01	12/10/13 18:58	SM2340B	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/11/13 15:15

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 20 EFF M-005 (13K1476-01) Water Sampled: 11/20/13 14:50 Received: 11/21/13 21:50											
Chloride	90	1.5	25		mg/l	50	AK32531	11/25/13 12:45	11/25/13 16:59	EPA 300.0	
Pond 21/20 DN (13K1476-02) Water Sampled: 11/20/13 15:20 Received: 11/21/13 21:50											
Chloride	120	0.75	12		mg/l	25	AK32531	11/25/13 12:45	11/25/13 17:14	EPA 300.0	



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140
Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
12/11/13 15:15

Metals by EPA 200 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AL30532 - Metals Digest											
Blank (AL30532-BLK1)											
					Prepared: 12/05/13 Analyzed: 12/10/13						
Calcium	0.0163	0.010	1.0	mg/l							J
Magnesium	ND	0.0080	1.0	"							U
LCS (AL30532-BS1)											
					Prepared: 12/05/13 Analyzed: 12/10/13						
Calcium	6.13	0.010	1.0	mg/l	6.00		102	85-115			
Magnesium	7.92	0.0080	1.0	"	8.00		99.0	85-115			
Duplicate (AL30532-DUP1)											
					Source: 13K1674-01		Prepared: 12/05/13 Analyzed: 12/10/13				
Calcium	50.0	0.010	1.0	mg/l		47.3			5.60	20	
Magnesium	32.0	0.0080	1.0	"		30.8			3.77	20	
Matrix Spike (AL30532-MS1)											
					Source: 13K1674-01		Prepared: 12/05/13 Analyzed: 12/10/13				
Calcium	54.0	0.010	1.0	mg/l	6.00	47.3	112	70-130			
Magnesium	38.3	0.0080	1.0	"	8.00	30.8	94.5	70-130			
Matrix Spike (AL30532-MS2)											
					Source: 13K1744-01		Prepared: 12/05/13 Analyzed: 12/10/13				
Calcium	27.7	0.010	1.0	mg/l	6.00	21.9	95.7	70-130			
Magnesium	17.2	0.0080	1.0	"	8.00	8.95	103	70-130			
Matrix Spike Dup (AL30532-MSD1)											
					Source: 13K1674-01		Prepared: 12/05/13 Analyzed: 12/10/13				
Calcium	52.2	0.010	1.0	mg/l	6.00	47.3	80.7	70-130	3.54	20	
Magnesium	35.1	0.0080	1.0	"	8.00	30.8	54.5	70-130	8.71	20	QM-4X

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140
Lehigh Southwest Cement Company
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
12/11/13 15:15

Metals by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AK32548 - EPA 1631

Blank (AK32548-BLK1)

Prepared: 11/25/13 Analyzed: 12/03/13

Mercury	ND	0.200	0.500	ng/l							U
Mercury	ND	0.200	0.500	"							U

LCS (AK32548-BS1)

Prepared: 11/25/13 Analyzed: 12/03/13

Mercury	4.91	0.200	0.500	ng/l	5.00		98.2	77-123			
---------	------	-------	-------	------	------	--	------	--------	--	--	--

Matrix Spike (AK32548-MS1)

Source: 13K1127-03

Prepared: 11/25/13 Analyzed: 12/03/13

Mercury	25.2	0.200	0.500	ng/l	25.0	1.00	96.8	71-125			
---------	------	-------	-------	------	------	------	------	--------	--	--	--

Matrix Spike (AK32548-MS2)

Source: 13K1488-05

Prepared: 11/25/13 Analyzed: 12/03/13

Mercury	51.5	0.200	0.500	ng/l	25.0	27.8	94.8	71-125			
---------	------	-------	-------	------	------	------	------	--------	--	--	--

Matrix Spike Dup (AK32548-MSD1)

Source: 13K1127-03

Prepared: 11/25/13 Analyzed: 12/03/13

Mercury	25.0	0.200	0.500	ng/l	25.0	1.00	96.0	71-125	0.797	24	
---------	------	-------	-------	------	------	------	------	--------	-------	----	--

Matrix Spike Dup (AK32548-MSD2)

Source: 13K1488-05

Prepared: 11/25/13 Analyzed: 12/03/13

Mercury	49.9	0.200	0.500	ng/l	25.0	27.8	88.4	71-125	3.16	24	
---------	------	-------	-------	------	------	------	------	--------	------	----	--

Batch AL30354 - SM3500 Cr6 Water

Blank (AL30354-BLK1)

Prepared & Analyzed: 12/03/13

Chromium, hexavalent	ND	0.0050	0.010	mg/l							U
----------------------	----	--------	-------	------	--	--	--	--	--	--	---

LCS (AL30354-BS1)

Prepared & Analyzed: 12/03/13

Chromium, hexavalent	0.103	0.0050	0.010	mg/l	0.100		103	80-120			
----------------------	-------	--------	-------	------	-------	--	-----	--------	--	--	--

Duplicate (AL30354-DUP1)

Source: 13K1476-01

Prepared & Analyzed: 12/03/13

Chromium, hexavalent	0.111	0.0050	0.010	mg/l		0.109			1.82	20	
----------------------	-------	--------	-------	------	--	-------	--	--	------	----	--

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/11/13 15:15

Metals by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AL30354 - SM3500 Cr6 Water											
Matrix Spike (AL30354-MS1)		Source: 13K1476-01			Prepared & Analyzed: 12/03/13						
Chromium, hexavalent	0.203	0.0050	0.010	mg/l	0.100	0.109	93.6	0-200			
Matrix Spike (AL30354-MS2)		Source: 13L0127-01			Prepared & Analyzed: 12/03/13						
Chromium, hexavalent	0.105	0.0050	0.010	mg/l	0.100	ND	105	0-200			
Matrix Spike Dup (AL30354-MSD1)		Source: 13K1476-01			Prepared & Analyzed: 12/03/13						
Chromium, hexavalent	0.202	0.0050	0.010	mg/l	0.100	0.109	92.6	0-200	0.494	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/11/13 15:15

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AK32534 - General Preparation

Blank (AK32534-BLK1)

Prepared: 11/25/13 Analyzed: 12/02/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AK32534-DUP1)

Source: 13K1425-01

Prepared: 11/25/13 Analyzed: 12/02/13

Total Dissolved Solids	352	5.0	10	mg/l		340			3.47	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AK32534-DUP2)

Source: 13K1491-01

Prepared: 11/25/13 Analyzed: 12/02/13

Total Dissolved Solids	1080	5.0	10	mg/l		1240			14.2	30	
------------------------	------	-----	----	------	--	------	--	--	------	----	--

Batch AK32658 - General Preparation

Blank (AK32658-BLK1)

Prepared: 11/26/13 Analyzed: 12/03/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AK32658-DUP1)

Source: 13K1476-01

Prepared: 11/26/13 Analyzed: 12/03/13

Total Suspended Solids	1800	0.30	0.50	mg/l		1800			0.00	30	
------------------------	------	------	------	------	--	------	--	--	------	----	--

Duplicate (AK32658-DUP2)

Source: 13K1479-01

Prepared: 11/26/13 Analyzed: 12/03/13

Total Suspended Solids	583	0.30	0.50	mg/l		590			1.14	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Batch AL30518 - General Preparation

Blank (AL30518-BLK1)

Prepared: 12/05/13 Analyzed: 12/06/13

Oil & Grease (HEM)	1.20	0.80	1.4	mg/l							J
--------------------	------	------	-----	------	--	--	--	--	--	--	---

LCS (AL30518-BS1)

Prepared: 12/05/13 Analyzed: 12/06/13

Oil & Grease (HEM)	38.1	0.80	1.4	mg/l	40.0		95.2	78-114		18	
--------------------	------	------	-----	------	------	--	------	--------	--	----	--

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/11/13 15:15

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL30518 - General Preparation

LCS Dup (AL30518-BSD1)

Prepared: 12/05/13 Analyzed: 12/06/13

Oil & Grease (HEM)	38.4	0.80	1.4	mg/l	40.0		96.0	78-114	0.784	18	
--------------------	------	------	-----	------	------	--	------	--------	-------	----	--

Matrix Spike (AL30518-MS1)

Source: 13L0120-01

Prepared: 12/05/13 Analyzed: 12/06/13

Oil & Grease (HEM)	19.1	0.80	1.4	mg/l	20.0	1.00	90.5	78-114		18	
--------------------	------	------	-----	------	------	------	------	--------	--	----	--

Batch AL30532 - Metals Digest

Blank (AL30532-BLK1)

Prepared: 12/05/13 Analyzed: 12/10/13

Hardness, Total	ND	1	5	mg/l							U
-----------------	----	---	---	------	--	--	--	--	--	--	---

Duplicate (AL30532-DUP1)

Source: 13K1674-01

Prepared: 12/05/13 Analyzed: 12/10/13

Hardness, Total	257	1	5	mg/l		245			4.65	20	
-----------------	-----	---	---	------	--	-----	--	--	------	----	--



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/11/13 15:15

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK32531 - General Preparation											
Blank (AK32531-BLK1) Prepared & Analyzed: 11/25/13											
Chloride	ND	0.030	0.50	mg/l							U
LCS (AK32531-BS1) Prepared & Analyzed: 11/25/13											
Chloride	11.2	0.030	0.50	mg/l	11.1		101	90-110			
Duplicate (AK32531-DUP1) Source: 13K1422-01 Prepared & Analyzed: 11/25/13											
Chloride	17.0	0.15	2.5	mg/l		17.0			0.176	20	
Matrix Spike (AK32531-MS1) Source: 13K1422-01 Prepared & Analyzed: 11/25/13											
Chloride	28.9	0.15	2.5	mg/l	11.1	17.0	106	80-120			
Matrix Spike (AK32531-MS2) Source: 13K1623-01 Prepared & Analyzed: 11/25/13											
Chloride	27.7	0.060	1.0	mg/l	11.1	16.3	103	80-120			
Matrix Spike Dup (AK32531-MSD1) Source: 13K1422-01 Prepared & Analyzed: 11/25/13											
Chloride	28.9	0.15	2.5	mg/l	11.1	17.0	107	80-120	0.250	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/11/13 15:15

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

January 8, 2014

Alpha Analytical Laboratories Inc.
ATTN: Robbie Phillips
208 Mason St.
Ukiah, CA 95482
robbie@alpha-labs.com

RE: Project AAL-DB1301

Client Project: 13K1476

Dear Mr. Phillips,

On November 26, 2013, Brooks Rand Labs (BRL) received three (3) water samples. The samples were logged-in for the contracted analyses of silver (Ag), arsenic (As), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), nickel (Ni), lead (Pb), antimony (Sb), selenium (Se), thallium (Tl), and zinc (Zn) according to the chain-of-custody (COC) forms. The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The sample *13K1476-03 Field Blank* (1348005-03) was labeled as a field blank and had Cu, Pb, and Zn concentrations above the MRL. The results for the samples may demonstrate possible contamination through field sample collection techniques employed.

For Se analysis, the method blanks (BLKs) BLK1 and BLK2 exceeded the limit, as did the average of the BLKs (0.069 µg/L) and the standard deviation (0.031 µg/L). This was cause for elevated reporting limits. The MDL was set at 3x the standard deviation (0.099 µg/L) and the MRL was set at 3x the MDL (0.296 µg/L).

The blank spike (BS) B132147-BS1 had low recoveries for Cr and Ni. The BS was re-analyzed as B132147-BS2 and B132147-BS3 and met acceptance criteria. Since both re-analyses met acceptance criteria and all other quality control samples met acceptance criteria, no qualifications were necessary.

The results were blank-corrected as described in the calculations section of the relevant SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. Aside from concentration qualifiers, all data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,



Lydia Greaves
Project Manager
lydia@brooksrands.com



Tiffany Stilwater
Client Services Manager
tiffany@brooksrands.com

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <<http://www.brooksrand.com/default.asp?contentID=586>>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
CRM	certified reference material	RPD	relative percent difference
D	dissolved fraction	RSD	relative standard deviation
DUP	duplicate	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction
IBL	instrument blank		

Definition of Data Qualifiers

(Effective 9/23/09)

B	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Result is estimated.
J	Estimated value. A full explanation is presented in the narrative.
J-M	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N	Spike recovery was not within acceptance criteria. Result is estimated.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
13K1476-01 Pond 20 EFF M-005	1348005-01	Water	Sample	11/20/2013	11/26/2013
13K1476-02 Pond 21/20 DN	1348005-02	Water	Sample	11/20/2013	11/26/2013
13K1476-03 Field Blank	1348005-03	Water	Sample	11/20/2013	11/26/2013

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ag	Water	EPA 1638	12/10/2013	12/17/2013	B132212	1300885
As	Water	EPA 1638 DRC	12/10/2013	12/11/2013	B132146	1300850
As	Water	EPA 1638 DRC	12/10/2013	12/17/2013	B132146	1300883
Be	Water	EPA 1638	12/10/2013	12/17/2013	B132212	1300885
Cd	Water	EPA 1638	12/10/2013	12/17/2013	B132212	1300885
Cr	Water	EPA 1638 DRC	12/10/2013	12/17/2013	B132147	1300887
Cu	Water	EPA 1638	12/10/2013	12/17/2013	B132212	1300885
Ni	Water	EPA 1638 DRC	12/10/2013	12/17/2013	B132147	1300887
Pb	Water	EPA 1638	12/10/2013	12/17/2013	B132212	1300885
Sb	Water	EPA 1638	12/10/2013	12/17/2013	B132212	1300885
Se	Water	EPA 1638 DRC	12/10/2013	12/11/2013	B132146	1300850
Se	Water	EPA 1638 DRC	12/10/2013	12/17/2013	B132146	1300883
Tl	Water	EPA 1638	12/10/2013	12/17/2013	B132212	1300885
Zn	Water	EPA 1638	12/10/2013	12/17/2013	B132212	1300885



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
13K1476-01 Pond 20 EFF M-005										
1348005-01	Ag	Water	T	0.323		0.026	0.105	µg/L	B132212	1300885
1348005-01	As	Water	T	6.12		0.237	0.789	µg/L	B132146	1300883
1348005-01	Be	Water	T	0.399	B	0.263	0.789	µg/L	B132212	1300885
1348005-01	Cd	Water	T	2.49		0.037	0.105	µg/L	B132212	1300885
1348005-01	Cr	Water	T	188		0.395	1.18	µg/L	B132147	1300887
1348005-01	Cu	Water	T	48.1		0.211	0.632	µg/L	B132212	1300885
1348005-01	Ni	Water	T	135		1.32	5.26	µg/L	B132147	1300887
1348005-01	Pb	Water	T	12.7		0.032	0.132	µg/L	B132212	1300885
1348005-01	Sb	Water	T	1.15		0.053	0.211	µg/L	B132212	1300885
1348005-01	Se	Water	T	15.8		2.47	7.39	µg/L	B132146	1300883
1348005-01	Tl	Water	T	1.27		0.016	0.053	µg/L	B132212	1300885
1348005-01	Zn	Water	T	195		0.32	1.05	µg/L	B132212	1300885
13K1476-02 Pond 21/20 DN										
1348005-02	Ag	Water	T	0.026	U	0.026	0.105	µg/L	B132212	1300885
1348005-02	As	Water	T	0.398		0.009	0.032	µg/L	B132146	1300850
1348005-02	Be	Water	T	0.263	U	0.263	0.789	µg/L	B132212	1300885
1348005-02	Cd	Water	T	0.038	B	0.037	0.105	µg/L	B132212	1300885
1348005-02	Cr	Water	T	9.74		0.395	1.18	µg/L	B132147	1300887
1348005-02	Cu	Water	T	2.95		0.211	0.632	µg/L	B132212	1300885
1348005-02	Ni	Water	T	3.90	B	1.32	5.26	µg/L	B132147	1300887
1348005-02	Pb	Water	T	0.154		0.032	0.132	µg/L	B132212	1300885
1348005-02	Sb	Water	T	0.166	B	0.053	0.211	µg/L	B132212	1300885
1348005-02	Se	Water	T	0.915		0.099	0.296	µg/L	B132146	1300850
1348005-02	Tl	Water	T	0.061		0.016	0.053	µg/L	B132212	1300885
1348005-02	Zn	Water	T	5.62		0.32	1.05	µg/L	B132212	1300885
13K1476-03 Field Blank										
1348005-03	Ag	Water	T	0.005	U	0.005	0.021	µg/L	B132212	1300885
1348005-03	As	Water	T	0.009	U	0.009	0.032	µg/L	B132146	1300850
1348005-03	Be	Water	T	0.053	U	0.053	0.158	µg/L	B132212	1300885
1348005-03	Cd	Water	T	0.007	U	0.007	0.021	µg/L	B132212	1300885
1348005-03	Cr	Water	T	0.038	B	0.016	0.047	µg/L	B132147	1300887
1348005-03	Cu	Water	T	0.334		0.042	0.126	µg/L	B132212	1300885
1348005-03	Ni	Water	T	0.053	U	0.053	0.211	µg/L	B132147	1300887
1348005-03	Pb	Water	T	0.083		0.006	0.026	µg/L	B132212	1300885
1348005-03	Sb	Water	T	0.011	U	0.011	0.042	µg/L	B132212	1300885
1348005-03	Se	Water	T	0.099	U	0.099	0.296	µg/L	B132146	1300850
1348005-03	Tl	Water	T	0.003	U	0.003	0.011	µg/L	B132212	1300885
1348005-03	Zn	Water	T	1.02		0.06	0.21	µg/L	B132212	1300885

Accuracy & Precision Summary

Batch: B132146
Lab Matrix: Water
Method: EPA 1638 DRC

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B132146-BS1	Laboratory Fortified Blank (1337045)						
	As		5.263	5.052	µg/L	96% 75-125	
	Se		6.316	6.107	µg/L	97% 75-125	
B132146-SRM1	Certified Reference Material (1323040, NIST 1643e)						
	As		60.45	60.42	µg/L	100% 75-125	
	Se		11.97	11.93	µg/L	100% 75-125	
B132146-DUP4	Duplicate (1348005-01)						
	As	6.115		5.836	µg/L		5% 20
	Se	15.77		15.87	µg/L		0.7% 20
B132146-MS4	Matrix Spike (1348005-01)						
	As	6.115	26.32	34.59	µg/L	108% 75-125	
	Se	15.77	52.63	72.71	µg/L	108% 75-125	
B132146-MSD4	Matrix Spike Duplicate (1348005-01)						
	As	6.115	26.32	34.30	µg/L	107% 75-125	0.8% 20
	Se	15.77	52.63	71.29	µg/L	106% 75-125	2% 20
B132146-DUP5	Duplicate (1348007-01)						
	As	5.338		5.545	µg/L		4% 20
	Se	49.45		48.36	µg/L		2% 20
B132146-MS5	Matrix Spike (1348007-01)						
	As	5.338	26.32	31.38	µg/L	99% 75-125	
	Se	49.45	52.63	100.4	µg/L	97% 75-125	
B132146-MSD5	Matrix Spike Duplicate (1348007-01)						
	As	5.338	26.32	32.88	µg/L	105% 75-125	5% 20
	Se	49.45	52.63	104.0	µg/L	104% 75-125	4% 20



Accuracy & Precision Summary

Batch: B132147
Lab Matrix: Water
Method: EPA 1638 DRC

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B132147-BS1	Laboratory Fortified Blank (1337045)						
	Cr		3.158	1.525	µg/L	48% 75-125	
	Ni		4.211	1.833	µg/L	44% 75-125	
B132147-BS2	Laboratory Fortified Blank (1337045)						
	Cr		3.158	3.532	µg/L	112% 75-125	
	Ni		4.211	3.780	µg/L	90% 75-125	
B132147-BS3	Laboratory Fortified Blank (1337045)						
	Cr		3.158	3.529	µg/L	112% 75-125	
	Ni		4.211	3.833	µg/L	91% 75-125	
B132147-SRM1	Certified Reference Material (1323040, NIST 1643e)						
	Cr		20.40	18.20	µg/L	89% 75-125	
	Ni		62.41	55.98	µg/L	90% 75-125	
B132147-SRM2	Certified Reference Material (1323040, NIST 1643e)						
	Cr		20.40	16.40	µg/L	80% 75-125	
	Ni		62.41	50.75	µg/L	81% 75-125	
B132147-DUP1	Duplicate (1348005-01)						
	Cr	188.2		189.9	µg/L		0.9% 20
	Ni	135.4		135.7	µg/L		0.3% 20
B132147-MS1	Matrix Spike (1348005-01)						
	Cr	188.2	263.2	422.2	µg/L	89% 75-125	
	Ni	135.4	263.2	366.2	µg/L	88% 75-125	
B132147-MSD1	Matrix Spike Duplicate (1348005-01)						
	Cr	188.2	263.2	430.7	µg/L	92% 75-125	2% 20
	Ni	135.4	263.2	384.6	µg/L	95% 75-125	5% 20



Accuracy & Precision Summary

Batch: B132147
Lab Matrix: Water
Method: EPA 1638 DRC

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B132147-DUP2	Duplicate (1348007-01)						
	Cr	149.1		148.8	µg/L		0.2% 20
	Ni	210.5		202.6	µg/L		4% 20
B132147-MS2	Matrix Spike (1348007-01)						
	Cr	149.1	263.2	376.0	µg/L	86% 75-125	
	Ni	210.5	263.2	430.4	µg/L	84% 75-125	
B132147-MSD2	Matrix Spike Duplicate (1348007-01)						
	Cr	149.1	263.2	409.5	µg/L	99% 75-125	9% 20
	Ni	210.5	263.2	460.1	µg/L	95% 75-125	7% 20

Accuracy & Precision Summary

Batch: B132212
Lab Matrix: Water
Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B132212-BS1	Laboratory Fortified Blank (1337045)						
		Ag		0.4211	0.428	µg/L	102% 75-125
		Be		3.158	3.236	µg/L	102% 75-125
		Cd		0.2105	0.220	µg/L	105% 75-125
		Cu		2.105	2.265	µg/L	108% 75-125
		Pb		0.5263	0.535	µg/L	102% 75-125
		Sb		0.4211	0.412	µg/L	98% 75-125
		Tl		0.2105	0.216	µg/L	103% 75-125
	Zn		4.211	4.17	µg/L	99% 75-125	
B132212-SRM1	Certified Reference Material (1323040, NIST 1643e)						
		Ag		1.062	0.983	µg/L	93% 75-125
		Be		13.98	13.73	µg/L	98% 75-125
		Cd		6.568	6.543	µg/L	100% 75-125
		Cu		22.76	22.26	µg/L	98% 75-125
		Pb		19.63	19.05	µg/L	97% 75-125
		Sb		58.30	52.85	µg/L	91% 75-125
		Tl		7.445	7.206	µg/L	97% 75-125
	Zn		78.50	76.68	µg/L	98% 75-125	
B132212-DUP1	Duplicate (1348005-01)						
		Ag	0.323		0.337	µg/L	4% 20
		Be	0.399		0.378	µg/L	5% 20
		Cd	2.487		2.442	µg/L	2% 20
		Cu	48.07		46.53	µg/L	3% 20
		Pb	12.70		12.69	µg/L	0.02% 20
		Sb	1.146		1.135	µg/L	1% 20
		Tl	1.273		1.299	µg/L	2% 20
	Zn	195.2		193.9	µg/L	0.7% 20	



Accuracy & Precision Summary

Batch: B132212
Lab Matrix: Water
Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B132212-MS1	Matrix Spike (1348005-01)						
	Ag	0.323	2.632	2.722	µg/L	91% 75-125	
	Be	0.399	4.211	4.562	µg/L	99% 75-125	
	Cd	2.487	26.32	26.33	µg/L	91% 75-125	
	Cu	48.07	631.6	592.8	µg/L	86% 75-125	
	Pb	12.70	105.3	118.6	µg/L	101% 75-125	
	Sb	1.146	10.53	10.35	µg/L	87% 75-125	
	Tl	1.273	10.53	11.12	µg/L	94% 75-125	
Zn	195.2	2105	2058	µg/L	88% 75-125		
B132212-MSD1	Matrix Spike Duplicate (1348005-01)						
	Ag	0.323	2.632	2.587	µg/L	86% 75-125	5% 20
	Be	0.399	4.211	4.370	µg/L	94% 75-125	4% 20
	Cd	2.487	26.32	25.08	µg/L	86% 75-125	5% 20
	Cu	48.07	631.6	570.7	µg/L	83% 75-125	4% 20
	Pb	12.70	105.3	113.4	µg/L	96% 75-125	4% 20
	Sb	1.146	10.53	9.865	µg/L	83% 75-125	5% 20
	Tl	1.273	10.53	10.64	µg/L	89% 75-125	4% 20
Zn	195.2	2105	1999	µg/L	86% 75-125	3% 20	
B132212-DUP2	Duplicate (1348007-01)						
	Ag	0.263		0.292	µg/L		10% 20
	Be	0.536		0.521	µg/L		3% 20
	Cd	2.037		1.999	µg/L		2% 20
	Cu	62.68		63.44	µg/L		1% 20
	Pb	6.092		6.240	µg/L		2% 20
	Sb	1.288		1.268	µg/L		2% 20
	Tl	0.373		0.384	µg/L		3% 20
Zn	157.3		160.0	µg/L		2% 20	



Accuracy & Precision Summary

Batch: B132212
 Lab Matrix: Water
 Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B132212-MS2	Matrix Spike (1348007-01)						
	Ag	0.263	2.632	2.821	µg/L	97% 75-125	
	Be	0.536	4.211	5.002	µg/L	106% 75-125	
	Cd	2.037	26.32	26.67	µg/L	94% 75-125	
	Cu	62.68	631.6	637.2	µg/L	91% 75-125	
	Pb	6.092	105.3	120.3	µg/L	109% 75-125	
	Sb	1.288	10.53	10.88	µg/L	91% 75-125	
	Tl	0.373	10.53	11.03	µg/L	101% 75-125	
Zn	157.3	2105	2150	µg/L	95% 75-125		
B132212-MSD2	Matrix Spike Duplicate (1348007-01)						
	Ag	0.263	2.632	2.817	µg/L	97% 75-125	0.1% 20
	Be	0.536	4.211	5.214	µg/L	111% 75-125	4% 20
	Cd	2.037	26.32	26.87	µg/L	94% 75-125	0.7% 20
	Cu	62.68	631.6	640.0	µg/L	91% 75-125	0.4% 20
	Pb	6.092	105.3	121.0	µg/L	109% 75-125	0.5% 20
	Sb	1.288	10.53	11.15	µg/L	94% 75-125	2% 20
	Tl	0.373	10.53	11.15	µg/L	102% 75-125	1% 20
Zn	157.3	2105	2153	µg/L	95% 75-125	0.2% 20	



Method Blanks & Reporting Limits

Batch: B132146
Matrix: Water
Method: EPA 1638 DRC
Analyte: As 91

Sample	Result	Units		
B132146-BLK1	0.004	µg/L		
B132146-BLK2	0.004	µg/L		
B132146-BLK3	0.005	µg/L		
B132146-BLK4	0.005	µg/L		
Average:	0.005		Standard Deviation:	0.001
Limit:	0.032		Limit:	0.009
			MDL:	0.009
			MRL:	0.032

Analyte: Se 78

Sample	Result	Units		
B132146-BLK1	0.109	µg/L		
B132146-BLK2	0.073	µg/L		
B132146-BLK3	0.060	µg/L		
B132146-BLK4	0.034	µg/L		
Average:	0.069		Standard Deviation:	0.031
Limit:	0.296		Limit:	0.099
			MDL:	0.099
			MRL:	0.296



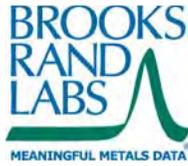
Method Blanks & Reporting Limits

Batch: B132147
Matrix: Water
Method: EPA 1638 DRC
Analyte: Cr 52

Sample	Result	Units		
B132147-BLK1	0.008	µg/L		
B132147-BLK2	0.008	µg/L		
B132147-BLK3	0.009	µg/L		
B132147-BLK4	0.008	µg/L		
Average: 0.008			Standard Deviation: 0.000	MDL: 0.016
Limit: 0.047			Limit: 0.016	MRL: 0.047

Analyte: Ni 62

Sample	Result	Units		
B132147-BLK1	0.013	µg/L		
B132147-BLK2	0.010	µg/L		
B132147-BLK3	0.016	µg/L		
B132147-BLK4	0.013	µg/L		
Average: 0.013			Standard Deviation: 0.002	MDL: 0.053
Limit: 0.211			Limit: 0.053	MRL: 0.211



Method Blanks & Reporting Limits

Batch: B132212
Matrix: Water
Method: EPA 1638
Analyte: Ag 107

Sample	Result	Units		
B132212-BLK1	0.0002	µg/L		
B132212-BLK2	0.0007	µg/L		
B132212-BLK3	-0.00006	µg/L		
B132212-BLK4	0.00003	µg/L		
Average:	0.000		Standard Deviation:	0.000
Limit:	0.021		Limit:	0.005
				MDL: 0.005
				MRL: 0.021

Analyte: Be

Sample	Result	Units		
B132212-BLK1	-0.004	µg/L		
B132212-BLK2	-0.005	µg/L		
B132212-BLK3	-0.003	µg/L		
B132212-BLK4	-0.005	µg/L		
Average:	-0.004		Standard Deviation:	0.001
Limit:	0.158		Limit:	0.053
				MDL: 0.053
				MRL: 0.158

Analyte: Cd 114

Sample	Result	Units		
B132212-BLK1	-0.0005	µg/L		
B132212-BLK2	-0.0007	µg/L		
B132212-BLK3	-0.0009	µg/L		
B132212-BLK4	-0.0007	µg/L		
Average:	-0.001		Standard Deviation:	0.000
Limit:	0.021		Limit:	0.007
				MDL: 0.007
				MRL: 0.021



Method Blanks & Reporting Limits

Analyte: Cu 63

Sample	Result	Units		
B132212-BLK1	-0.004	µg/L		
B132212-BLK2	-0.008	µg/L		
B132212-BLK3	-0.009	µg/L		
B132212-BLK4	-0.009	µg/L		
Average:	-0.008		Standard Deviation:	0.002
Limit:	0.126		Limit:	0.042
				MDL: 0.042
				MRL: 0.126

Analyte: Pb

Sample	Result	Units		
B132212-BLK1	-0.002	µg/L		
B132212-BLK2	-0.002	µg/L		
B132212-BLK3	-0.002	µg/L		
B132212-BLK4	-0.003	µg/L		
Average:	-0.002		Standard Deviation:	0.001
Limit:	0.026		Limit:	0.006
				MDL: 0.006
				MRL: 0.026

Analyte: Sb

Sample	Result	Units		
B132212-BLK1	-0.003	µg/L		
B132212-BLK2	-0.003	µg/L		
B132212-BLK3	-0.003	µg/L		
B132212-BLK4	-0.002	µg/L		
Average:	-0.003		Standard Deviation:	0.001
Limit:	0.042		Limit:	0.011
				MDL: 0.011
				MRL: 0.042

Analyte: Tl

Sample	Result	Units		
B132212-BLK1	-0.0009	µg/L		
B132212-BLK2	-0.001	µg/L		
B132212-BLK3	-0.001	µg/L		
B132212-BLK4	-0.0009	µg/L		
Average:	-0.001		Standard Deviation:	0.000
Limit:	0.011		Limit:	0.003
				MDL: 0.003
				MRL: 0.011



Method Blanks & Reporting Limits

Analyte: Zn 66

Sample	Result	Units		
B132212-BLK1	0.06	µg/L		
B132212-BLK2	0.06	µg/L		
B132212-BLK3	0.05	µg/L		
B132212-BLK4	0.05	µg/L		
Average: 0.06			Standard Deviation: 0.01	MDL: 0.06
Limit: 0.21			Limit: 0.06	MRL: 0.21

Project ID: AAL-DB1301
PM: Lydia Greaves



BRL Report 1348005
Client PM: Robbie Phillips
Client PO: 130903RP-1

Sample Containers

Lab ID: 1348005-01 Sample: 13K1476-01 Pond 20 EFF M-005	Report Matrix: Water Sample Type: Sample	Collected: 11/20/2013 Received: 11/26/2013
Des Container A Client-Provided	Size 500mL	Lot not provided
Preservation 0.1% HNO3 (BRL)	P-Lot 1331069	pH <2
Ship. Cont. Cooler		
Lab ID: 1348005-02 Sample: 13K1476-02 Pond 21/20 DN	Report Matrix: Water Sample Type: Sample	Collected: 11/20/2013 Received: 11/26/2013
Des Container A Client-Provided	Size 500mL	Lot not provided
Preservation 0.1% HNO3 (BRL)	P-Lot 1331069	pH <2
Ship. Cont. Cooler		
Lab ID: 1348005-03 Sample: 13K1476-03 Field Blank	Report Matrix: Water Sample Type: Sample	Collected: 11/20/2013 Received: 11/26/2013
Des Container A Client-Provided	Size 500mL	Lot not provided
Preservation 0.1% HNO3 (BRL)	P-Lot 1331069	pH <2
Ship. Cont. Cooler		

Shipping Containers

Cooler

Received: November 26, 2013 14:42
Tracking No: 1Z8942500147255657 via UPS
Coolant Type: Ice
Temperature: 1.4 °C

Description: Cooler
Damaged in transit? No
Returned to client? No

Custody seals present? No
Custody seals intact? No
COC present? Yes

SUBCONTRACT ORDER

BRL Report 1348005

Alpha Analytical Laboratories, Inc.

13K1476

SENDING LABORATORY:

Alpha Analytical Laboratories, Inc.
 208 Mason St.
 Ukiah, CA 95482
 Phone: (707)468-0401
 Fax: (707)468-5267
 Project Manager: Robbie C. Phillips

RECEIVING LABORATORY:

Brooks Rand Labs, LLC
 3958 6th Avenue NW
 Seattle, WA 98107
 Phone : (206) 632-6206
 Fax: (206) 632-6017
 Terms: Net 30

Analysis	Due	Expires	Comments
13K1476-01 Pond 20 EFF M-005 [Water] Sampled 11/20/13 14:50 Pacific			

1638 Sb Total ICPMS	12/10/13 12:00	05/19/14 14:50	
1638 Ag Total ICPMS	12/10/13 12:00	05/19/14 14:50	
1638 Zn Total ICPMS	12/10/13 12:00	05/19/14 14:50	
1638 Se Total ICPMS	12/10/13 12:00	05/19/14 14:50	
1638 Pb Total ICPMS	12/10/13 12:00	05/19/14 14:50	
1638 Ni Total ICPMS	12/10/13 12:00	05/19/14 14:50	
1638 Cu Total ICPMS	12/10/13 12:00	05/19/14 14:50	
1638 Cr Total ICPMS	12/10/13 12:00	05/19/14 14:50	
1638 Cd Total ICPMS	12/10/13 12:00	05/19/14 14:50	
1638 Be Total ICPMS	12/10/13 12:00	05/19/14 14:50	
1638 As Total ICPMS	12/10/13 12:00	05/19/14 14:50	
1638 Tl Total ICPMS	12/10/13 12:00	05/19/14 14:50	

Containers Supplied:

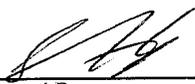
~~500 mL Poly HNO3 (E)~~ *glass*

13K1476-02 Pond 21/20 DN [Water] Sampled 11/20/13 15:20 Pacific

1638 Ni Total ICPMS	12/10/13 12:00	05/19/14 15:20	
1638 Cu Total ICPMS	12/10/13 12:00	05/19/14 15:20	
1638 Ag Total ICPMS	12/10/13 12:00	05/19/14 15:20	
1638 As Total ICPMS	12/10/13 12:00	05/19/14 15:20	
1638 Be Total ICPMS	12/10/13 12:00	05/19/14 15:20	
1638 Cd Total ICPMS	12/10/13 12:00	05/19/14 15:20	
1638 Sb Total ICPMS	12/10/13 12:00	05/19/14 15:20	
1638 Pb Total ICPMS	12/10/13 12:00	05/19/14 15:20	
1638 Zn Total ICPMS	12/10/13 12:00	05/19/14 15:20	
1638 Tl Total ICPMS	12/10/13 12:00	05/19/14 15:20	
1638 Se Total ICPMS	12/10/13 12:00	05/19/14 15:20	
1638 Cr Total ICPMS	12/10/13 12:00	05/19/14 15:20	

Containers Supplied:

~~500 mL Poly HNO3 (E)~~ *glass*

	11-22-13		11/26/13 1442
Released By	Date	Received By	Date

Released By	Date	Received By	Date
		17 of 18	

SUBCONTRACT ORDER

BRL Report 1348005

Alpha Analytical Laboratories, Inc.

13K1476

Analysis	Due	Expires	Comments
----------	-----	---------	----------

13K1476-03 Field Blank [Water] Sampled 11/20/13 00:00 Pacific

1638 Be Total ICPMS	12/10/13 12:00	05/19/14 00:00	
1638 As Total ICPMS	12/10/13 12:00	05/19/14 00:00	
1638 Ag Total ICPMS	12/10/13 12:00	05/19/14 00:00	
1638 Tl Total ICPMS	12/10/13 12:00	05/19/14 00:00	
1638 Cd Total ICPMS	12/10/13 12:00	05/19/14 00:00	
1638 Se Total ICPMS	12/10/13 12:00	05/19/14 00:00	
1638 Sb Total ICPMS	12/10/13 12:00	05/19/14 00:00	
1638 Pb Total ICPMS	12/10/13 12:00	05/19/14 00:00	
1638 Ni Total ICPMS	12/10/13 12:00	05/19/14 00:00	
1638 Cu Total ICPMS	12/10/13 12:00	05/19/14 00:00	
1638 Cr Total ICPMS	12/10/13 12:00	05/19/14 00:00	
1638 Zn Total ICPMS	12/10/13 12:00	05/19/14 00:00	

Containers Supplied:

~~500 mL Poly HNO3 (A)~~

glass

Report to State

System Name: _____

Employed by: _____

User ID: _____

Sampler: _____

System Number: _____

+QC
+J-Flags

[Signature]

11-22-13

Released By

Date

Wrin West

11/26/13 1442

Received By

Date

Released By

Date

Received By
18 of 18

Date



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

05 December 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K1513

Enclosed are the results of analyses for samples received by the laboratory on 11/21/13 21:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tabatha J. Pryor For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

12/05/13 10:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 Comp	13K1513-01	Water	11/21/13 09:20	11/21/13 21:50
Pond 9 Comp	13K1513-02	Water	11/21/13 10:30	11/21/13 21:50
Pond 17 Comp	13K1513-03	Water	11/21/13 11:20	11/21/13 21:50



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

12/05/13 10:10

**Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 Comp (13K1513-01) Water Sampled: 11/21/13 09:20 Received: 11/21/13 21:50											
Total Suspended Solids	1.2	0.30	0.50		mg/l	1	AK32658	11/26/13 14:38	12/03/13 12:59	SM2540D	
Pond 9 Comp (13K1513-02) Water Sampled: 11/21/13 10:30 Received: 11/21/13 21:50											
Total Suspended Solids	11	0.30	0.50		mg/l	1	AK32658	11/26/13 14:38	12/03/13 12:59	SM2540D	
Pond 17 Comp (13K1513-03) Water Sampled: 11/21/13 11:20 Received: 11/21/13 21:50											
Total Suspended Solids	6.0	0.30	0.50		mg/l	1	AK32658	11/26/13 14:38	12/03/13 12:59	SM2540D	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140	Project Manager: Chow Yip	Reported:
Lehigh Southwest Cement Company	Project: Lehigh S & G Permit	12/05/13 10:10
PO Box 660140 / Attention SSC AP - CEMENT	Project Number: 063-73109-914	

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK32658 - General Preparation											
Blank (AK32658-BLK1) Prepared: 11/26/13 Analyzed: 12/03/13											
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AK32658-DUP1) Source: 13K1476-01 Prepared: 11/26/13 Analyzed: 12/03/13											
Total Suspended Solids	1800	0.30	0.50	mg/l		1800			0.00	30	
Duplicate (AK32658-DUP2) Source: 13K1479-01 Prepared: 11/26/13 Analyzed: 12/03/13											
Total Suspended Solids	583	0.30	0.50	mg/l		590			1.14	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

12/05/13 10:10

Notes and Definitions

U	Analyte included in analysis, but not detected at or above MDL.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



Golder Associates CHAIN OF CUSTODY

Page 1 of 1
Quotation No. 13K1513

Project # 12

PROJECT NO.: 063-73109-914
SITE NAME: Lehigh Weekly S&G Permit

SAMPLER(S): SHARKEY (printed)
1. Sharkey (signature)

CONTRACT LABORATORY: ALPHA
TURN-AROUND TIME: STANDARD

Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Container Info		
		Date	Time			Type/Vol.	Filter	Preserv.
Pond 4 Comp		11-21-13	09:20	W				
Pond 9 Comp			10:30					
Pond 17 Comp			11:20					

Remarks: include J flags

ANALYSES

155 (composite)

22

22

EDD required? Yes No

EDF required? Yes No

PO # 4500486111 - line 1

Relinquished by (signature): Sharkey 11-21-13

Relinquished by (signature): [Signature]

Relinquished by (signature): [Signature]

Received by (signature): [Signature]

Received by (signature): [Signature]

Received by (signature): [Signature]

SEND RESULTS TO:

Attn: George Wegmann, Greg Knapp
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224

white - lab copy yellow - project file



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

11 December 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K1680

Enclosed are the results of analyses for samples received by the laboratory on 11/25/13 22:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly / 063-73109-914

Reported:

12/11/13 14:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 AEFM-001	13K1680-01	Water	11/25/13 09:50	11/25/13 22:30
Pond 9 EFFM-002	13K1680-02	Water	11/25/13 11:35	11/25/13 22:30
Pond 9 UPR-001B	13K1680-03	Water	11/25/13 11:45	11/25/13 22:30
Pond 9 DNR-002B	13K1680-04	Water	11/25/13 11:55	11/25/13 22:30
Pond 17 EFFM-004	13K1680-05	Water	11/25/13 12:15	11/25/13 22:30
Pond 17 DNR-002D	13K1680-06	Water	11/25/13 12:30	11/25/13 22:30

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly / 063-73109-914

Reported:

12/11/13 14:06

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 AEFM-001 (13K1680-01) Water Sampled: 11/25/13 09:50 Received: 11/25/13 22:30											
Total Dissolved Solids	950	5.0	10		mg/l	1	AL30224	12/02/13 09:15	12/06/13 09:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AK32720	11/26/13 13:00	11/26/13 17:00	SM2540F	U
Pond 9 EFFM-002 (13K1680-02) Water Sampled: 11/25/13 11:35 Received: 11/25/13 22:30											
Total Dissolved Solids	1300	5.0	10		mg/l	1	AL30224	12/02/13 09:15	12/06/13 09:30	SM2540C	
Total Settleable Solids	3.0	0.10	0.10		ml/l	"	AK32720	11/26/13 13:00	11/26/13 17:00	SM2540F	
Pond 9 UPR-001B (13K1680-03) Water Sampled: 11/25/13 11:45 Received: 11/25/13 22:30											
Total Dissolved Solids	1300	5.0	10		mg/l	1	AL30224	12/02/13 09:15	12/06/13 09:30	SM2540C	
Pond 9 DNR-002B (13K1680-04) Water Sampled: 11/25/13 11:55 Received: 11/25/13 22:30											
Total Dissolved Solids	1100	5.0	10		mg/l	1	AL30224	12/02/13 09:15	12/06/13 09:30	SM2540C	
Pond 17 EFFM-004 (13K1680-05) Water Sampled: 11/25/13 12:15 Received: 11/25/13 22:30											
Total Dissolved Solids	1200	5.0	10		mg/l	1	AL30224	12/02/13 09:15	12/06/13 09:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AK32720	11/26/13 13:00	11/26/13 17:00	SM2540F	U
Pond 17 DNR-002D (13K1680-06) Water Sampled: 11/25/13 12:30 Received: 11/25/13 22:30											
Total Dissolved Solids	1400	5.0	10		mg/l	1	AL30224	12/02/13 09:15	12/06/13 09:30	SM2540C	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly / 063-73109-914

Reported:

12/11/13 14:06

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 AEFM-001 (13K1680-01) Water Sampled: 11/25/13 09:50 Received: 11/25/13 22:30											
Chloride	97	0.60	10		mg/l	20	AK32705	11/27/13 08:02	11/28/13 00:32	EPA 300.0	
Pond 9 EEFM-002 (13K1680-02) Water Sampled: 11/25/13 11:35 Received: 11/25/13 22:30											
Chloride	94	0.75	12		mg/l	25	AK32705	11/27/13 08:02	11/28/13 01:17	EPA 300.0	
Pond 9 UPR-001B (13K1680-03) Water Sampled: 11/25/13 11:45 Received: 11/25/13 22:30											
Chloride	130	0.75	12		mg/l	25	AK32705	11/27/13 08:02	11/28/13 01:32	EPA 300.0	
Pond 9 DNR-002B (13K1680-04) Water Sampled: 11/25/13 11:55 Received: 11/25/13 22:30											
Chloride	98	0.75	12		mg/l	25	AK32705	11/27/13 08:02	11/28/13 01:47	EPA 300.0	
Pond 17 EEFM-004 (13K1680-05) Water Sampled: 11/25/13 12:15 Received: 11/25/13 22:30											
Chloride	110	0.75	12		mg/l	25	AK32705	11/27/13 08:02	11/28/13 02:02	EPA 300.0	
Pond 17 DNR-002D (13K1680-06) Water Sampled: 11/25/13 12:30 Received: 11/25/13 22:30											
Chloride	100	0.75	12		mg/l	25	AK32705	11/27/13 08:02	11/28/13 02:17	EPA 300.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly / 063-73109-914

Reported:

12/11/13 14:06

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL30224 - General Preparation

Blank (AL30224-BLK1)

Prepared: 12/02/13 Analyzed: 12/06/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AL30224-DUP1)

Source: 13K1680-01

Prepared: 12/02/13 Analyzed: 12/06/13

Total Dissolved Solids	976	5.0	10	mg/l		948			2.91	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AL30224-DUP2)

Source: 13K1738-01

Prepared: 12/02/13 Analyzed: 12/06/13

Total Dissolved Solids	580	5.0	10	mg/l		664			13.5	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly / 063-73109-914

Reported:

12/11/13 14:06

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK32705 - General Preparation											
Blank (AK32705-BLK1) Prepared & Analyzed: 11/27/13											
Chloride	ND	0.030	0.50	mg/l							U
LCS (AK32705-BS1) Prepared & Analyzed: 11/27/13											
Chloride	10.2	0.030	0.50	mg/l	10.0		102	90-110			
Duplicate (AK32705-DUP1) Source: 13K1712-02 Prepared & Analyzed: 11/27/13											
Chloride	71.9	0.30	5.0	mg/l		71.5			0.586	20	
Matrix Spike (AK32705-MS1) Source: 13K1712-02 Prepared & Analyzed: 11/27/13											
Chloride	81.9	0.30	5.0	mg/l	11.1	71.5	93.1	80-120			
Matrix Spike (AK32705-MS2) Source: 13K1735-01 Prepared: 11/27/13 Analyzed: 11/28/13											
Chloride	88.7	0.15	2.5	mg/l	11.1	74.8	125	80-120			QM-05
Matrix Spike Dup (AK32705-MSD1) Source: 13K1712-02 Prepared & Analyzed: 11/27/13											
Chloride	81.5	0.30	5.0	mg/l	11.1	71.5	90.0	80-120	0.422	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly / 063-73109-914

Reported:

12/11/13 14:06

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Golder Associates
CHAIN OF CUSTODY

131K1680 Page 1 of 1
Quotation No. 7204

PROJECT NO.: 063-73109-914
SITE NAME: Lehigh Weekly Seg Permit

SAMPLER(S): 1 SHARKY
1 BLY (printed) (signature)

CONTRACT LABORATORY: ALPHA
TURN-AROUND TIME: STANDARD

ANALYSES

SS, TDS, chloride	1
TDS, chloride	1

EDD required?
 Yes No
 EDF required?
 Yes No

Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol. Filter Preserv.	Container Info	Cont. Qty.	Remarks
		Date	Time						

Pond 4 EFFM-001		11-25	09:50	W		1	1	1	include 3 flags
Pond 9 EFFM-002			11:35			1	1	1	
Pond 9 UPR-001B			11:45			1	1	1	
Pond 9 DNR-002B			11:55			1	1	1	
Pond 17 EFF-M-004			12:15			1	1	1	
Pond 17 DNR-002D			12:30			1	1	1	

Relinquished by (signature) <i>[Signature]</i>	Received by (signature) <i>[Signature]</i>	Date/Time 11/25/13 14:30	SEND RESULTS TO: Attn: George Niegman Greg Knapp Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224
Relinquished by (signature) <i>[Signature]</i>	Received by (signature) <i>[Signature]</i>	Date/Time 11-25-13 19:35	
Relinquished by (signature) <i>[Signature]</i>	Received by (signature) <i>[Signature]</i>	Date/Time 11-25-13 22:50	



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

12 December 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13K1745

Enclosed are the results of analyses for samples received by the laboratory on 11/26/13 22:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/12/13 14:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 Comp	13K1745-01	Water	11/26/13 07:40	11/26/13 22:05
Pond 9 Comp	13K1745-02	Water	11/26/13 08:45	11/26/13 22:05
Pond 17 Comp	13K1745-03	Water	11/26/13 09:15	11/26/13 22:05

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/12/13 14:10

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 Comp (13K1745-01) Water Sampled: 11/26/13 07:40 Received: 11/26/13 22:05											
Total Suspended Solids	3.8	0.30	0.50		mg/l	1	AL30221	12/02/13 08:08	12/03/13 12:57	SM2540D	
Pond 9 Comp (13K1745-02) Water Sampled: 11/26/13 08:45 Received: 11/26/13 22:05											
Total Suspended Solids	12	0.30	0.50		mg/l	1	AL30221	12/02/13 08:08	12/03/13 12:57	SM2540D	
Pond 17 Comp (13K1745-03) Water Sampled: 11/26/13 09:15 Received: 11/26/13 22:05											
Total Suspended Solids	1.6	0.30	0.50		mg/l	1	AL30221	12/02/13 08:08	12/03/13 12:57	SM2540D	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/12/13 14:10

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL30221 - General Preparation

Blank (AL30221-BLK1)

Prepared: 12/02/13 Analyzed: 12/03/13

Total Suspended Solids ND 0.30 0.50 mg/l U

Duplicate (AL30221-DUP1)

Source: 13K1600-01

Prepared: 12/02/13 Analyzed: 12/03/13

Total Suspended Solids 235 0.30 0.50 mg/l 255 8.16 30

Duplicate (AL30221-DUP2)

Source: 13K1719-01

Prepared: 12/02/13 Analyzed: 12/03/13

Total Suspended Solids 316 0.30 0.50 mg/l 316 0.00 30



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Dallas TX, 75266-0140

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/12/13 14:10

Notes and Definitions

U	Analyte included in analysis, but not detected at or above MDL.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



Golder Associates CHAIN OF CUSTODY

13K1745

Quotation No. _____

PROJECT NO.: 063-7109-914		SITE NAME: Lehigh Weekly S&G Permit		ANALYSES					
SAMPLER(S): T. SHARKEY (printed)		CONTRACT LABORATORY: ALPHA		(4) TSS (Composites)		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
TURN-AROUND TIME: STANDARD		Container Info							
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol. Filter Preserv.	Cont. Qty.	Remarks	
		Date	Time						
Pond 4 Comp		11-26-13	07:40	W			1	Include J flags	
Pond 9 Comp		↓	08:45				1		
Pond 17 Comp		↓	09:15				1		
							3		

SEND RESULTS TO:
 Attn: George Wegmann Greg Knapp
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224

Received by (signature):
 [Signature] 11-26-13 1505
Date/Time:
 11-26-13 1925
Date/Time:
 11-26-13 2205

Reinquired by (signature):
 [Signature] 11-26-13
Reinquired by (signature):
 [Signature]
Reinquired by (signature):
 [Signature]



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

13 December 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13L0244

Enclosed are the results of analyses for samples received by the laboratory on 12/03/13 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-73109-914/ Weekly

Reported:
12/13/13 14:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 EFF M-001	13L0244-01	Water	12/03/13 10:15	12/03/13 21:45
Pond 9 EFF M-002	13L0244-02	Water	12/03/13 11:45	12/03/13 21:45
Pond 9 UP R-001B	13L0244-03	Water	12/03/13 11:55	12/03/13 21:45
Pond 9 DN R-002B	13L0244-04	Water	12/03/13 12:10	12/03/13 21:45
Pond 17 EFF M-004	13L0244-05	Water	12/03/13 12:30	12/03/13 21:45
Pond 17 DN R-002D	13L0244-06	Water	12/03/13 12:45	12/03/13 21:45

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-73109-914/ Weekly

Reported:
12/13/13 14:02

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 EFF M-001 (13L0244-01) Water Sampled: 12/03/13 10:15 Received: 12/03/13 21:45											
Total Dissolved Solids	880	5.0	10		mg/l	1	AL30931	12/09/13 10:00	12/12/13 14:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AL30453	12/04/13 13:00	12/04/13 17:00	SM2540F	U
Pond 9 EFF M-002 (13L0244-02) Water Sampled: 12/03/13 11:45 Received: 12/03/13 21:45											
Total Dissolved Solids	1200	5.0	10		mg/l	1	AL30931	12/09/13 10:00	12/12/13 14:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AL30453	12/04/13 13:00	12/04/13 17:00	SM2540F	U
Pond 9 UP R-001B (13L0244-03) Water Sampled: 12/03/13 11:55 Received: 12/03/13 21:45											
Total Dissolved Solids	1500	5.0	10		mg/l	1	AL30931	12/09/13 10:00	12/12/13 14:00	SM2540C	
Pond 9 DN R-002B (13L0244-04) Water Sampled: 12/03/13 12:10 Received: 12/03/13 21:45											
Total Dissolved Solids	1300	5.0	10		mg/l	1	AL30931	12/09/13 10:00	12/12/13 14:00	SM2540C	
Pond 17 EFF M-004 (13L0244-05) Water Sampled: 12/03/13 12:30 Received: 12/03/13 21:45											
Total Dissolved Solids	1600	5.0	10		mg/l	1	AL30931	12/09/13 10:00	12/12/13 14:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AL30453	12/04/13 13:00	12/04/13 17:00	SM2540F	U
Pond 17 DN R-002D (13L0244-06) Water Sampled: 12/03/13 12:45 Received: 12/03/13 21:45											
Total Dissolved Solids	1500	5.0	10		mg/l	1	AL30931	12/09/13 10:00	12/12/13 14:00	SM2540C	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-73109-914/ Weekly

Reported:
12/13/13 14:02

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 EFF M-001 (13L0244-01) Water Sampled: 12/03/13 10:15 Received: 12/03/13 21:45											
Chloride	78	0.60	10		mg/l	20	AL30938	12/09/13 12:30	12/09/13 18:59	EPA 300.0	
Pond 9 EFF M-002 (13L0244-02) Water Sampled: 12/03/13 11:45 Received: 12/03/13 21:45											
Chloride	93	0.75	12		mg/l	25	AL30938	12/09/13 12:30	12/09/13 19:44	EPA 300.0	
Pond 9 UP R-001B (13L0244-03) Water Sampled: 12/03/13 11:55 Received: 12/03/13 21:45											
Chloride	140	0.75	12		mg/l	25	AL30938	12/09/13 12:30	12/09/13 19:59	EPA 300.0	
Pond 9 DN R-002B (13L0244-04) Water Sampled: 12/03/13 12:10 Received: 12/03/13 21:45											
Chloride	110	0.75	12		mg/l	25	AL30938	12/09/13 12:30	12/09/13 20:14	EPA 300.0	
Pond 17 EFF M-004 (13L0244-05) Water Sampled: 12/03/13 12:30 Received: 12/03/13 21:45											
Chloride	450	0.75	12		mg/l	25	AL30938	12/09/13 12:30	12/09/13 20:29	EPA 300.0	
Pond 17 DN R-002D (13L0244-06) Water Sampled: 12/03/13 12:45 Received: 12/03/13 21:45											
Chloride	110	1.5	25		mg/l	50	AL30938	12/09/13 12:30	12/09/13 20:44	EPA 300.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914/ Weekly

Reported:

12/13/13 14:02

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL30931 - General Preparation

Blank (AL30931-BLK1)

Prepared & Analyzed: 12/12/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AL30931-DUP1)

Source: 13L0244-02

Prepared & Analyzed: 12/12/13

Total Dissolved Solids	1150	5.0	10	mg/l		1180			2.06	30	
------------------------	------	-----	----	------	--	------	--	--	------	----	--

Duplicate (AL30931-DUP2)

Source: 13L0390-01

Prepared & Analyzed: 12/12/13

Total Dissolved Solids	276	5.0	10	mg/l		278			0.722	30	
------------------------	-----	-----	----	------	--	-----	--	--	-------	----	--



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-73109-914/ Weekly

Reported:
12/13/13 14:02

Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AL30938 - General Preparation											
Blank (AL30938-BLK1) Prepared & Analyzed: 12/09/13											
Chloride	ND	0.030	0.50	mg/l							U
LCS (AL30938-BS1) Prepared & Analyzed: 12/09/13											
Chloride	11.2	0.030	0.50	mg/l	11.1		101	90-110			
Duplicate (AL30938-DUP1) Source: 13L0268-01 Prepared & Analyzed: 12/09/13											
Chloride	6.06	0.030	0.50	mg/l		5.89			2.75	20	
Matrix Spike (AL30938-MS1) Source: 13L0268-01 Prepared & Analyzed: 12/09/13											
Chloride	18.1	0.030	0.50	mg/l	11.1	5.89	110	80-120			
Matrix Spike (AL30938-MS2) Source: 13L0214-03 Prepared: 12/09/13 Analyzed: 12/10/13											
Chloride	42.5	0.30	5.0	mg/l	11.1	34.4	72.5	80-120			QM-01
Matrix Spike Dup (AL30938-MSD1) Source: 13L0268-01 Prepared & Analyzed: 12/09/13											
Chloride	18.3	0.030	0.50	mg/l	11.1	5.89	111	80-120	0.849	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914/ Weekly

Reported:

12/13/13 14:02

Notes and Definitions

- QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Golder Associates CHAIN OF CUSTODY

130249

Quotation No.

PROJECT NO.: 063-73109 - 914		SITE NAME: Lehigh Weekly SAC Permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLER(S): 1. SPARKLEY (printed)		Signature: <i>[Signature]</i>		TDS, chloride		EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CONTRACT LABORATORY: ALPHA		Container Info		Type/Vol.		Cont. Qty.	
TURN-AROUND TIME: STANDARD		Matrix		Filter		Remarks	
Collection		Depth		Preserv.		include J flags.	
Sample I.D.	Lab I.D.	Date	Time				
Pond 4 EFF M-001		12/03/13	10:15	W			
Pond 9 EFF M-002			11:45				
Pond 9 UP R-001B			11:55				
Pond 9 DNR-002B			12:10				
Pond 17 EFF M-004			12:30				
Pond 17 DNR-002D			12:45				
Relinquished by: (signature) <i>[Signature]</i>		12/03/13		Received by: (signature) <i>[Signature]</i>		Date/Time 12-3-13 14:45	
Relinquished by: (signature) <i>[Signature]</i>				Received by: (signature) <i>[Signature]</i>		Date/Time 12-3-13 19:00	
Relinquished by: (signature) <i>[Signature]</i>				Received by: (signature) <i>[Signature]</i>		Date/Time 12-3-13 21:45	
SEND RESULTS TO:						Attn: George Wegman Greg Krapp Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224	



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

13 December 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13L0363

Enclosed are the results of analyses for samples received by the laboratory on 12/04/13 22:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/13/13 14:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 Comp	13L0363-01	Water	12/04/13 09:25	12/04/13 22:00
Pond 9 Comp	13L0363-02	Water	12/04/13 10:25	12/04/13 22:00
Pond 17 Comp	13L0363-03	Water	12/04/13 11:15	12/04/13 22:00

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/13/13 14:12

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 Comp (13L0363-01) Water Sampled: 12/04/13 09:25 Received: 12/04/13 22:00											
Total Suspended Solids	4.0	0.30	0.50		mg/l	1	AL30603	12/06/13 08:13	12/12/13 10:33	SM2540D	
Pond 9 Comp (13L0363-02) Water Sampled: 12/04/13 10:25 Received: 12/04/13 22:00											
Total Suspended Solids	2.2	0.30	0.50		mg/l	1	AL30603	12/06/13 08:13	12/12/13 10:33	SM2540D	
Pond 17 Comp (13L0363-03) Water Sampled: 12/04/13 11:15 Received: 12/04/13 22:00											
Total Suspended Solids	2.2	0.30	0.50		mg/l	1	AL30603	12/06/13 08:13	12/12/13 10:33	SM2540D	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/13/13 14:12

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL30603 - General Preparation

Blank (AL30603-BLK1)

Prepared: 12/06/13 Analyzed: 12/12/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AL30603-DUP1)

Source: 13L0161-03

Prepared: 12/06/13 Analyzed: 12/12/13

Total Suspended Solids	292	0.30	0.50	mg/l		284			2.78	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Duplicate (AL30603-DUP2)

Source: 13L0350-04

Prepared: 12/06/13 Analyzed: 12/12/13

Total Suspended Solids	730	0.30	0.50	mg/l		705			3.48	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
12/13/13 14:12

Notes and Definitions

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

13L0363

Quotation No.

Golder Associates CHAIN OF CUSTODY



PROJECT NO: 063-7109-914		SITE NAME: Lehigh Weekly S&G Permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
SAMPLER(S): 1 SHIRKEY (printed)		CONTAINER INFO: ALPHA		EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
CONTRACT LABORATORY: STANDARD		TURN-AROUND TIME: STANDARD							
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	Filter Preserv.	Cont. Qty.	Remarks
		Date	Time						
Pond 4 Comp		12/4/13	09:25			1L		1	Include J Flags
Pond 9 Comp			10:25			2Z		1	
Pond 17 Comp			11:15			2Z		1	
								3	

TSS Composite

SEND RESULTS TO:
 Attn: George Wegman Greg Krupp
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224

Date/Time: 12/4/13 1440
 Date/Time: 12/4/13 1930
 Date/Time: 12/4/13 2200

Received by: (signature)
 Received by: (signature)
 Received by: (signature)

Relinquished by: (signature) 12/04/13
 Relinquished by: (signature)
 Relinquished by: (signature)



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

30 December 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13L0750

Enclosed are the results of analyses for samples received by the laboratory on 12/10/13 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-73109-914

Reported:

12/30/13 14:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 EFF M-001	13L0750-01	Water	12/10/13 10:10	12/10/13 21:45
Pond 9 EFF M-002	13L0750-02	Water	12/10/13 11:40	12/10/13 21:45
Pond 9 UP R-001B	13L0750-03	Water	12/10/13 11:50	12/10/13 21:45
Pond 9 DN R-002B	13L0750-04	Water	12/10/13 12:00	12/10/13 21:45
Pond 17 EFF M-004	13L0750-05	Water	12/10/13 12:30	12/10/13 21:45
Pond 17 DN R-002D	13L0750-06	Water	12/10/13 12:40	12/10/13 21:45

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
 Dallas TX, 75266-0140
 PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
 Project: Lehigh S & G Permit
 Project Number: 063-73109-914

Reported:
 12/30/13 14:13

Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 EFF M-001 (13L0750-01) Water Sampled: 12/10/13 10:10 Received: 12/10/13 21:45											
Total Dissolved Solids	930	5.0	10		mg/l	1	AL31231	12/12/13 10:15	12/18/13 08:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AL31148	12/11/13 13:00	12/11/13 17:00	SM2540F	U
Pond 9 EFF M-002 (13L0750-02) Water Sampled: 12/10/13 11:40 Received: 12/10/13 21:45											
Total Dissolved Solids	920	5.0	10		mg/l	1	AL31231	12/12/13 10:15	12/18/13 08:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AL31148	12/11/13 13:00	12/11/13 17:00	SM2540F	U
Pond 9 UP R-001B (13L0750-03) Water Sampled: 12/10/13 11:50 Received: 12/10/13 21:45											
Total Dissolved Solids	1500	5.0	10		mg/l	1	AL31231	12/12/13 10:15	12/18/13 08:30	SM2540C	
Pond 9 DN R-002B (13L0750-04) Water Sampled: 12/10/13 12:00 Received: 12/10/13 21:45											
Total Dissolved Solids	1100	5.0	10		mg/l	1	AL31231	12/12/13 10:15	12/18/13 08:30	SM2540C	
Pond 17 EFF M-004 (13L0750-05) Water Sampled: 12/10/13 12:30 Received: 12/10/13 21:45											
Total Dissolved Solids	920	5.0	10		mg/l	1	AL31231	12/12/13 10:15	12/18/13 08:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AL31148	12/11/13 13:00	12/11/13 17:00	SM2540F	U
Pond 17 DN R-002D (13L0750-06) Water Sampled: 12/10/13 12:40 Received: 12/10/13 21:45											
Total Dissolved Solids	920	5.0	10		mg/l	1	AL31231	12/12/13 10:15	12/18/13 08:30	SM2540C	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-73109-914

Reported:
12/30/13 14:13

Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 EFF M-001 (13L0750-01) Water Sampled: 12/10/13 10:10 Received: 12/10/13 21:45											
Chloride	77	0.60	10		mg/l	20	AL31128	12/11/13 08:30	12/11/13 20:18	EPA 300.0	
Pond 9 EFF M-002 (13L0750-02) Water Sampled: 12/10/13 11:40 Received: 12/10/13 21:45											
Chloride	130	0.60	10		mg/l	20	AL31128	12/11/13 08:30	12/11/13 20:33	EPA 300.0	
Pond 9 UP R-001B (13L0750-03) Water Sampled: 12/10/13 11:50 Received: 12/10/13 21:45											
Chloride	120	0.75	12		mg/l	25	AL31128	12/11/13 08:30	12/11/13 20:49	EPA 300.0	
Pond 9 DN R-002B (13L0750-04) Water Sampled: 12/10/13 12:00 Received: 12/10/13 21:45											
Chloride	130	0.60	10		mg/l	20	AL31128	12/11/13 08:30	12/11/13 21:04	EPA 300.0	
Pond 17 EFF M-004 (13L0750-05) Water Sampled: 12/10/13 12:30 Received: 12/10/13 21:45											
Chloride	100	0.60	10		mg/l	20	AL31128	12/11/13 08:30	12/11/13 21:49	EPA 300.0	
Pond 17 DN R-002D (13L0750-06) Water Sampled: 12/10/13 12:40 Received: 12/10/13 21:45											
Chloride	130	0.60	10		mg/l	20	AL31128	12/11/13 08:30	12/11/13 10:04	EPA 300.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-73109-914

Reported:
12/30/13 14:13

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AL31231 - General Preparation											
Blank (AL31231-BLK1)											
						Prepared: 12/12/13 Analyzed: 12/18/13					
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AL31231-DUP1)											
						Source: 13L0758-02 Prepared: 12/12/13 Analyzed: 12/18/13					
Total Dissolved Solids	224	5.0	10	mg/l		217			3.17	30	
Duplicate (AL31231-DUP2)											
						Source: 13L0760-02 Prepared: 12/12/13 Analyzed: 12/18/13					
Total Dissolved Solids	960	5.0	10	mg/l		988			2.87	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-73109-914

Reported:
12/30/13 14:13

Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AL31128 - General Preparation											
Blank (AL31128-BLK1) Prepared & Analyzed: 12/11/13											
Chloride	ND	0.030	0.50	mg/l							U
LCS (AL31128-BS1) Prepared & Analyzed: 12/11/13											
Chloride	10.0	0.030	0.50	mg/l	10.0		100	90-110			
Duplicate (AL31128-DUP1) Source: 13L0708-01 Prepared & Analyzed: 12/11/13											
Chloride	35.2	0.15	2.5	mg/l		35.3			0.298	20	
Matrix Spike (AL31128-MS1) Source: 13L0708-01 Prepared & Analyzed: 12/11/13											
Chloride	47.0	0.15	2.5	mg/l	11.1	35.3	106	80-120			
Matrix Spike (AL31128-MS2) Source: 13L0724-01 Prepared & Analyzed: 12/11/13											
Chloride	10.9	0.030	0.50	mg/l	11.1	0.0660	97.1	80-120			
Matrix Spike Dup (AL31128-MSD1) Source: 13L0708-01 Prepared & Analyzed: 12/11/13											
Chloride	46.9	0.15	2.5	mg/l	11.1	35.3	105	80-120	0.213	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-73109-914

Reported:
12/30/13 14:13

Notes and Definitions

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Golder Associates CHAIN OF CUSTODY

Page 1 of 1

Quotation No. 130750

ANALYSES

PROJECT NO.: 063-73109-914

SITE NAME: Lehigh weekly S&G Permit

SAMPLER(S): L. SHARVEY (printed)

CONTRACT LABORATORY: ALPHA
TURN-AROUND TIME: STANDARD

Container Info

Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	Filter	Preserv.
		Date	Time					
Pond 4 EFFM-001		12/10/13	10:10	W				
Pond 9 EFFM-002			11:40					
Pond 9 W/R-001B			11:50					
Pond 9 DN R-002B			12:00					
Pond 17 EFFM-004			12:30					
Pond 17 W/R-002D			12:40					

Cont. Qty.	Remarks
1	Include J Flags
1	
1	
1	
1	
6	

EDD required? Yes No

EDF required? Yes No

55 TDS (chloride) 2 2 2
TDS chloride 2 2 2

Relinquished by: (signature) L. Sharvey 12/10/13

Relinquished by: (signature) [Signature]

Relinquished by: (signature) [Signature]

Relinquished by: (signature) [Signature]

Received by: (signature) [Signature]

Received by: (signature) [Signature]

Received by: (signature) [Signature]

Received by: (signature) [Signature]

Date/Time: 12/10/13 15:05

Date/Time: 12/10/13 19:30

Date/Time: 12/10/13 21:15

SEND RESULTS TO:
Attn: George Neumann Greg Knapp
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

31 December 2013

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13L0918

Enclosed are the results of analyses for samples received by the laboratory on 12/11/13 22:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
12/31/13 10:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 Comp	13L0918-01	Water	12/11/13 09:00	12/11/13 22:00
Pond 9 Comp	13L0918-02	Water	12/11/13 10:00	12/11/13 22:00
Pond 17 Comp	13L0918-03	Water	12/11/13 10:30	12/11/13 22:00



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
 Dallas TX, 75266-0140
 PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
 Project: Lehigh S & G Permit
 Project Number: 063-7109-914

Reported:
 12/31/13 10:03

**Conventional Chemistry Parameters by APHA/EPA Methods
 Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4 Comp (13L0918-01) Water Sampled: 12/11/13 09:00 Received: 12/11/13 22:00											
Total Suspended Solids	4.8	0.30	0.50		mg/l	1	AL31333	12/13/13 13:57	12/23/13 12:57	SM2540D	
Pond 9 Comp (13L0918-02) Water Sampled: 12/11/13 10:00 Received: 12/11/13 22:00											
Total Suspended Solids	33	0.30	0.50		mg/l	1	AL31333	12/13/13 13:57	12/23/13 12:57	SM2540D	
Pond 17 Comp (13L0918-03) Water Sampled: 12/11/13 10:30 Received: 12/11/13 22:00											
Total Suspended Solids	1.2	0.30	0.50		mg/l	1	AL31333	12/13/13 13:57	12/23/13 12:57	SM2540D	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/31/13 10:03

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL31333 - General Preparation

Blank (AL31333-BLK1)

Prepared: 12/13/13 Analyzed: 12/23/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AL31333-DUP1)

Source: 13L0976-02

Prepared: 12/13/13 Analyzed: 12/23/13

Total Suspended Solids	14200	0.30	0.50	mg/l		10800			27.6	30	
------------------------	-------	------	------	------	--	-------	--	--	------	----	--

Duplicate (AL31333-DUP2)

Source: 13L0992-01

Prepared: 12/13/13 Analyzed: 12/23/13

Total Suspended Solids	362	0.30	0.50	mg/l		390			7.58	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

12/31/13 10:03

Notes and Definitions

U	Analyte included in analysis, but not detected at or above MDL.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



Golder Associates CHAIN OF CUSTODY

13LOG18

Quotation No.

PROJECT NO: 063-7109-914		SITE NAME: L-high weekly S&G Permit		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
SAMPLER(S): TAN SHIPWAY (printed) / Shady (signature)		CONTAINER INFO		EDF required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
CONTRACT LABORATORY: ALPHA		TURN-AROUND TIME: STANDARD								
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	Filter	Preserv.	Cont. Qty.	Remarks
		Date	Time							
Pond 4 Comp		12/11/13	09:00	W		1 L			1	Include J flags
Pond 9 Comp			10:00			1			1	
Pond 17 Comp			10:30			1			1	
										3
Relinquished by: (signature) Shady		12/11/13		Received by: (signature) John Glenn		Date/Time: 12/11/13 1500		SEND RESULTS TO: Attn: George Wearmann Greg Knapp Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224		
Relinquished by: (signature) Shady				Received by: (signature) John Glenn		Date/Time: 12/11/13 1435				
Relinquished by: (signature) Shady				Received by: (signature) John Glenn		Date/Time: 12/11/13 2200				



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

06 January 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13L1242

Enclosed are the results of analyses for samples received by the laboratory on 12/17/13 21:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
01/06/14 15:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	13L1242-01	Water	12/17/13 09:40	12/17/13 21:20
Pond 9 EFF M-002	13L1242-02	Water	12/17/13 12:30	12/17/13 21:20
Pond 9 UP R-001B	13L1242-03	Water	12/17/13 12:40	12/17/13 21:20
Pond 9 DN R-002B	13L1242-04	Water	12/17/13 12:50	12/17/13 21:20
Pond 17 EFF M-004	13L1242-05	Water	12/17/13 13:25	12/17/13 21:20
Pond 17 DN R-002D	13L1242-06	Water	12/17/13 13:40	12/17/13 21:20
Downstream	13L1242-07	Water	12/17/13 14:15	12/17/13 21:20
Duplicate	13L1242-08	Water	12/17/13 14:30	12/17/13 21:20
Field Blank	13L1242-09	Water	12/17/13 14:30	12/17/13 21:20

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
01/06/14 15:04

Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 UP R-001B (13L1242-03) Water Sampled: 12/17/13 12:40 Received: 12/17/13 21:20											
Calcium	250	0.010	1.0		mg/l	1	AA40218	01/02/14 09:52	01/03/14 14:20	EPA 200.7	
Magnesium	80	0.0080	1.0		"	"	"	"	"	"	
Pond 9 DN R-002B (13L1242-04) Water Sampled: 12/17/13 12:50 Received: 12/17/13 21:20											
Calcium	170	0.010	1.0		mg/l	1	AA40218	01/02/14 09:52	01/03/14 14:26	EPA 200.7	
Magnesium	56	0.0080	1.0		"	"	"	"	"	"	
Pond 17 DN R-002D (13L1242-06) Water Sampled: 12/17/13 13:40 Received: 12/17/13 21:20											
Calcium	170	0.010	1.0		mg/l	1	AA40218	01/02/14 09:52	01/03/14 14:31	EPA 200.7	
Magnesium	47	0.0080	1.0		"	"	"	"	"	"	
Downstream (13L1242-07) Water Sampled: 12/17/13 14:15 Received: 12/17/13 21:20											
Calcium	190	0.010	1.0		mg/l	1	AA40218	01/02/14 09:52	01/03/14 13:12	EPA 200.7	
Magnesium	60	0.0080	1.0		"	"	"	"	"	"	
Duplicate (13L1242-08) Water Sampled: 12/17/13 14:30 Received: 12/17/13 21:20											
Calcium	180	0.010	1.0		mg/l	1	AA40218	01/02/14 09:52	01/03/14 14:36	EPA 200.7	
Magnesium	56	0.0080	1.0		"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
 Dallas TX, 75266-0140
 PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
 Project: Lehigh S & G Permit
 Project Number: 063-7109-914

Reported:
 01/06/14 15:04

Metals by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	Reporting			Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		MDL	Limit								
Pond 4A EFF M-001 (13L1242-01) Water Sampled: 12/17/13 09:40 Received: 12/17/13 21:20											
Chromium, hexavalent	ND	0.0050	0.010		mg/l	1	AA40622	01/06/14 07:45	01/06/14 09:42	SM3500-Cr B	U
Mercury	6.24	0.200	0.500		ng/l	"	AL33041	12/30/13 16:00	01/03/14 17:45	EPA 1631E	
Pond 9 EFF M-002 (13L1242-02) Water Sampled: 12/17/13 12:30 Received: 12/17/13 21:20											
Chromium, hexavalent	ND	0.0050	0.010		mg/l	1	AA40622	01/06/14 07:45	01/06/14 09:42	SM3500-Cr B	U
Mercury	7.02	0.200	0.500		ng/l	"	AL33041	12/30/13 16:00	01/03/14 17:53	EPA 1631E	
Pond 9 DN R-002B (13L1242-04) Water Sampled: 12/17/13 12:50 Received: 12/17/13 21:20											
Chromium, hexavalent	ND	0.0050	0.010		mg/l	1	AA40622	01/06/14 07:45	01/06/14 09:42	SM3500-Cr B	U
Mercury	10.5	0.200	0.500		ng/l	"	AL33041	12/30/13 16:00	01/03/14 18:01	EPA 1631E	
Pond 17 EFF M-004 (13L1242-05) Water Sampled: 12/17/13 13:25 Received: 12/17/13 21:20											
Chromium, hexavalent	ND	0.0050	0.010		mg/l	1	AA40622	01/06/14 07:45	01/06/14 09:42	SM3500-Cr B	U
Mercury	13.2	0.200	0.500		ng/l	"	AL33041	12/30/13 16:00	01/03/14 18:25	EPA 1631E	
Pond 17 DN R-002D (13L1242-06) Water Sampled: 12/17/13 13:40 Received: 12/17/13 21:20											
Chromium, hexavalent	ND	0.0050	0.010		mg/l	1	AA40622	01/06/14 07:45	01/06/14 09:42	SM3500-Cr B	U
Mercury	6.37	0.200	0.500		ng/l	"	AL33041	12/30/13 16:00	01/03/14 18:33	EPA 1631E	
Downstream (13L1242-07) Water Sampled: 12/17/13 14:15 Received: 12/17/13 21:20											
Chromium, hexavalent	ND	0.0050	0.010		mg/l	1	AA40622	01/06/14 07:45	01/06/14 09:42	SM3500-Cr B	U
Mercury	5.95	0.200	0.500		ng/l	"	AL33041	12/30/13 16:00	01/03/14 18:42	EPA 1631E	
Duplicate (13L1242-08) Water Sampled: 12/17/13 14:30 Received: 12/17/13 21:20											
Chromium, hexavalent	ND	0.0050	0.010		mg/l	1	AA40622	01/06/14 07:45	01/06/14 09:42	SM3500-Cr B	U
Mercury	4.02	0.200	0.500		ng/l	"	AL33041	12/30/13 16:00	01/03/14 18:50	EPA 1631E	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
01/06/14 15:04

Metals by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Field Blank (13L1242-09) Water Sampled: 12/17/13 14:30 Received: 12/17/13 21:20											
Mercury	ND	0.200	0.500		ng/l	1	AL33041	12/30/13 16:00	01/03/14 18:58	EPA 1631E	U



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

01/06/14 15:04

**Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13L1242-01) Water Sampled: 12/17/13 09:40 Received: 12/17/13 21:20											
Oil & Grease (HEM)	1.1	0.80	1.4		mg/l	1	AL33022	12/30/13 08:00	12/31/13 13:20	EPA 1664A	J
Total Dissolved Solids	990	5.0	10		"	"	AL32011	12/20/13 10:00	12/30/13 13:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AL31931	12/18/13 13:00	12/18/13 17:00	SM2540F	U
Pond 9 EFF M-002 (13L1242-02) Water Sampled: 12/17/13 12:30 Received: 12/17/13 21:20											
Oil & Grease (HEM)	1.5	0.80	1.4		mg/l	1	AL33022	12/30/13 08:00	12/31/13 13:20	EPA 1664A	
Total Dissolved Solids	980	5.0	10		"	"	AL32011	12/20/13 10:00	12/30/13 13:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AL31931	12/18/13 13:00	12/18/13 17:00	SM2540F	U
Pond 9 UP R-001B (13L1242-03) Water Sampled: 12/17/13 12:40 Received: 12/17/13 21:20											
Salinity	ND	2.0	2.0		g/kg	1	AL32440	12/27/13 13:30	12/27/14 15:00	SM2520B	T-18, U
Total Dissolved Solids	1500	5.0	10		mg/l	"	AL32011	12/20/13 10:00	12/30/13 13:30	SM2540C	
Total Suspended Solids	4.0	0.30	0.50		"	"	AL31938	12/19/13 10:23	12/30/13 13:00	SM2540D	
Hardness, Total	956	1	5		"	"	AA40218	01/02/14 09:52	01/03/14 14:20	SM2340B	
Pond 9 DN R-002B (13L1242-04) Water Sampled: 12/17/13 12:50 Received: 12/17/13 21:20											
Salinity	ND	2.0	2.0		g/kg	1	AL32440	12/27/13 13:30	12/27/14 15:00	SM2520B	T-18, U
Total Dissolved Solids	1100	5.0	10		mg/l	"	AL32011	12/20/13 10:00	12/30/13 13:30	SM2540C	
Total Suspended Solids	10	0.30	0.50		"	"	AL31938	12/19/13 10:23	12/30/13 13:00	SM2540D	
Hardness, Total	646	1	5		"	"	AA40218	01/02/14 09:52	01/03/14 14:26	SM2340B	
Pond 17 EFF M-004 (13L1242-05) Water Sampled: 12/17/13 13:25 Received: 12/17/13 21:20											
Oil & Grease (HEM)	1.5	0.80	1.4		mg/l	1	AL33022	12/30/13 08:00	12/31/13 13:20	EPA 1664A	
Total Dissolved Solids	1100	5.0	10		"	"	AL32011	12/20/13 10:00	12/30/13 13:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AL31931	12/18/13 13:00	12/18/13 17:00	SM2540F	U

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

01/06/14 15:04

**Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 17 DN R-002D (13L1242-06) Water Sampled: 12/17/13 13:40 Received: 12/17/13 21:20											
Salinity	ND	2.0	2.0		g/kg	1	AL32440	12/27/13 13:30	12/27/14 15:00	SM2520B	T-18, U
Total Dissolved Solids	1400	5.0	10		mg/l	"	AL32011	12/20/13 10:00	12/30/13 13:30	SM2540C	
Total Suspended Solids	0.60	0.30	0.50		"	"	AL31938	12/19/13 10:23	12/30/13 13:00	SM2540D	
Hardness, Total	621	1	5		"	"	AA40218	01/02/14 09:52	01/03/14 14:31	SM2340B	
Downstream (13L1242-07) Water Sampled: 12/17/13 14:15 Received: 12/17/13 21:20											
Oil & Grease (HEM)	1.3	0.80	1.4		mg/l	1	AL33022	12/30/13 08:00	12/31/13 13:20	EPA 1664A	J
Salinity	ND	2.0	2.0		g/kg	"	AL32440	12/27/13 13:30	12/27/14 15:00	SM2520B	T-18, U
Total Dissolved Solids	1300	5.0	10		mg/l	"	AL32011	12/20/13 10:00	12/30/13 13:30	SM2540C	
Total Suspended Solids	5.6	0.30	0.50		"	"	AL31938	12/19/13 10:23	12/30/13 13:00	SM2540D	
Hardness, Total	728	1	5		"	"	AA40218	01/02/14 09:52	01/03/14 13:12	SM2340B	
Duplicate (13L1242-08) Water Sampled: 12/17/13 14:30 Received: 12/17/13 21:20											
Oil & Grease (HEM)	1.2	0.80	1.4		mg/l	1	AL33022	12/30/13 08:00	12/31/13 13:20	EPA 1664A	J
Salinity	ND	2.0	2.0		g/kg	"	AL32440	12/27/13 13:30	12/27/14 15:00	SM2520B	T-18, U
Total Dissolved Solids	1300	5.0	10		mg/l	"	AL32011	12/20/13 10:00	12/30/13 13:30	SM2540C	
Total Suspended Solids	0.40	0.30	0.50		"	"	AL31938	12/19/13 10:23	12/30/13 13:00	SM2540D	J
Hardness, Total	676	1	5		"	"	AA40218	01/02/14 09:52	01/03/14 14:36	SM2340B	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
 Dallas TX, 75266-0140
 PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
 Project: Lehigh S & G Permit
 Project Number: 063-7109-914

Reported:
 01/06/14 15:04

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A EFF M-001 (13L1242-01) Water Sampled: 12/17/13 09:40 Received: 12/17/13 21:20											
Chloride	83	0.60	10		mg/l	20	AL32363	12/23/13 12:09	12/24/13 00:40	EPA 300.0	
Pond 9 EFF M-002 (13L1242-02) Water Sampled: 12/17/13 12:30 Received: 12/17/13 21:20											
Chloride	100	0.75	12		mg/l	25	AL32363	12/23/13 12:09	12/24/13 00:56	EPA 300.0	
Pond 9 UP R-001B (13L1242-03) Water Sampled: 12/17/13 12:40 Received: 12/17/13 21:20											
Chloride	130	0.75	12		mg/l	25	AL32363	12/23/13 12:09	12/24/13 01:11	EPA 300.0	
Pond 9 DN R-002B (13L1242-04) Water Sampled: 12/17/13 12:50 Received: 12/17/13 21:20											
Chloride	110	0.75	12		mg/l	25	AL32363	12/23/13 12:09	12/24/13 01:26	EPA 300.0	
Pond 17 EFF M-004 (13L1242-05) Water Sampled: 12/17/13 13:25 Received: 12/17/13 21:20											
Chloride	110	0.60	10		mg/l	20	AL32363	12/23/13 12:09	12/24/13 01:41	EPA 300.0	
Pond 17 DN R-002D (13L1242-06) Water Sampled: 12/17/13 13:40 Received: 12/17/13 21:20											
Chloride	110	0.75	12		mg/l	25	AL32363	12/23/13 12:09	12/24/13 01:56	EPA 300.0	
Downstream (13L1242-07) Water Sampled: 12/17/13 14:15 Received: 12/17/13 21:20											
Chloride	110	0.75	12		mg/l	25	AL32363	12/23/13 12:09	12/24/13 02:11	EPA 300.0	
Duplicate (13L1242-08) Water Sampled: 12/17/13 14:30 Received: 12/17/13 21:20											
Chloride	110	0.75	12		mg/l	25	AL32363	12/23/13 12:09	12/24/13 02:26	EPA 300.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
 Dallas TX, 75266-0140
 PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
 Project: Lehigh S & G Permit
 Project Number: 063-7109-914

Reported:
 01/06/14 15:04

Metals by EPA 200 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AA40218 - Metals Digest											
Blank (AA40218-BLK1)											
					Prepared: 01/02/14 Analyzed: 01/03/14						
Calcium	0.0113	0.010	1.0	mg/l							J
Magnesium	ND	0.0080	1.0	"							U
LCS (AA40218-BS1)											
					Prepared: 01/02/14 Analyzed: 01/03/14						
Calcium	5.71	0.010	1.0	mg/l	6.00		95.1	85-115			
Magnesium	7.44	0.0080	1.0	"	8.00		93.0	85-115			
Duplicate (AA40218-DUP1)											
					Source: 13L1732-01 Prepared: 01/02/14 Analyzed: 01/03/14						
Calcium	17.3	0.010	1.0	mg/l		17.1			1.24	20	
Magnesium	7.40	0.0080	1.0	"		7.15			3.46	20	
Matrix Spike (AA40218-MS1)											
					Source: 13L1732-01 Prepared: 01/02/14 Analyzed: 01/03/14						
Calcium	21.5	0.010	1.0	mg/l	6.00	17.1	72.0	70-130			
Magnesium	13.3	0.0080	1.0	"	8.00	7.15	77.1	70-130			
Matrix Spike (AA40218-MS2)											
					Source: 13L1242-07 Prepared: 01/02/14 Analyzed: 01/03/14						
Calcium	173	0.010	1.0	mg/l	6.00	193	NR	70-130			QM-4X
Magnesium	59.9	0.0080	1.0	"	8.00	59.9	0.814	70-130			QM-4X
Matrix Spike Dup (AA40218-MSD1)											
					Source: 13L1732-01 Prepared: 01/02/14 Analyzed: 01/03/14						
Calcium	21.6	0.010	1.0	mg/l	6.00	17.1	74.5	70-130	0.690	20	
Magnesium	14.1	0.0080	1.0	"	8.00	7.15	87.0	70-130	5.78	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
01/06/14 15:04

Metals by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AA40622 - SM3500 Cr6 Water											
Blank (AA40622-BLK1)					Prepared & Analyzed: 01/06/14						
Chromium, hexavalent	ND	0.0050	0.010	mg/l							U
LCS (AA40622-BS1)					Prepared & Analyzed: 01/06/14						
Chromium, hexavalent	0.101	0.0050	0.010	mg/l	0.100		101	80-120			
Duplicate (AA40622-DUP1)					Source: 13L1242-01 Prepared & Analyzed: 01/06/14						
Chromium, hexavalent	ND	0.0050	0.010	mg/l		ND				20	U
Matrix Spike (AA40622-MS1)					Source: 13L1242-01 Prepared & Analyzed: 01/06/14						
Chromium, hexavalent	0.0730	0.0050	0.010	mg/l	0.100	ND	73.0	0-200			
Matrix Spike Dup (AA40622-MSD1)					Source: 13L1242-01 Prepared & Analyzed: 01/06/14						
Chromium, hexavalent	0.0751	0.0050	0.010	mg/l	0.100	ND	75.1	0-200	2.81	20	
Batch AL33041 - EPA 1631											
Blank (AL33041-BLK1)					Prepared: 12/30/13 Analyzed: 01/03/14						
Mercury	ND	0.200	0.500	ng/l							U
Mercury	ND	0.200	0.500	"							U
LCS (AL33041-BS1)					Prepared: 12/30/13 Analyzed: 01/03/14						
Mercury	4.78	0.200	0.500	ng/l	5.00		95.6	77-123			
Matrix Spike (AL33041-MS1)					Source: 13L1181-03 Prepared: 12/30/13 Analyzed: 01/03/14						
Mercury	29.6	0.200	0.500	ng/l	25.0	1.15	114	71-125			
Matrix Spike (AL33041-MS2)					Source: 13L1472-03 Prepared: 12/30/13 Analyzed: 01/03/14						
Mercury	34.7	0.200	0.500	ng/l	25.0	6.05	115	71-125			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
01/06/14 15:04

Metals by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL33041 - EPA 1631

Matrix Spike Dup (AL33041-MSD1)

Source: 13L1181-03

Prepared: 12/30/13 Analyzed: 01/03/14

Mercury	29.6	0.200	0.500	ng/l	25.0	1.15	114	71-125	0.0675	24	
---------	------	-------	-------	------	------	------	-----	--------	--------	----	--

Matrix Spike Dup (AL33041-MSD2)

Source: 13L1472-03

Prepared: 12/30/13 Analyzed: 01/03/14

Mercury	34.9	0.200	0.500	ng/l	25.0	6.05	115	71-125	0.431	24	
---------	------	-------	-------	------	------	------	-----	--------	-------	----	--



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

01/06/14 15:04

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AA40218 - Metals Digest

Blank (AA40218-BLK1)

Prepared: 01/02/14 Analyzed: 01/03/14

Hardness, Total	ND	1	5	mg/l							U
-----------------	----	---	---	------	--	--	--	--	--	--	---

Duplicate (AA40218-DUP1)

Source: 13L1732-01

Prepared: 01/02/14 Analyzed: 01/03/14

Hardness, Total	74	1	5	mg/l		72			2.15	20	
-----------------	----	---	---	------	--	----	--	--	------	----	--

Batch AL31938 - General Preparation

Blank (AL31938-BLK1)

Prepared: 12/19/13 Analyzed: 12/30/13

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AL31938-DUP1)

Source: 13L1258-01

Prepared: 12/19/13 Analyzed: 12/30/13

Total Suspended Solids	136	0.30	0.50	mg/l		140			2.90	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Duplicate (AL31938-DUP2)

Source: 13L1280-01

Prepared: 12/19/13 Analyzed: 12/30/13

Total Suspended Solids	292	0.30	0.50	mg/l		296			1.36	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Batch AL32011 - General Preparation

Blank (AL32011-BLK1)

Prepared: 12/20/13 Analyzed: 12/30/13

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AL32011-DUP1)

Source: 13L1242-01

Prepared: 12/20/13 Analyzed: 12/30/13

Total Dissolved Solids	1070	5.0	10	mg/l		992			7.38	30	
------------------------	------	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AL32011-DUP2)

Source: 13L1242-05

Prepared: 12/20/13 Analyzed: 12/30/13

Total Dissolved Solids	1120	5.0	10	mg/l		1130			0.355	30	
------------------------	------	-----	----	------	--	------	--	--	-------	----	--

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

01/06/14 15:04

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL33022 - General Preparation

Blank (AL33022-BLK1)

Prepared: 12/30/13 Analyzed: 12/31/13

Oil & Grease (HEM)	ND	0.80	1.4	mg/l							U
--------------------	----	------	-----	------	--	--	--	--	--	--	---

LCS (AL33022-BS1)

Prepared: 12/30/13 Analyzed: 12/31/13

Oil & Grease (HEM)	34.7	0.80	1.4	mg/l	40.0		86.8	78-114		18	
--------------------	------	------	-----	------	------	--	------	--------	--	----	--

LCS Dup (AL33022-BSD1)

Prepared: 12/30/13 Analyzed: 12/31/13

Oil & Grease (HEM)	32.0	0.80	1.4	mg/l	40.0		80.0	78-114	8.10	18	
--------------------	------	------	-----	------	------	--	------	--------	------	----	--

Matrix Spike (AL33022-MS1)

Source: 13L1242-01

Prepared: 12/30/13 Analyzed: 12/31/13

Oil & Grease (HEM)	19.6	0.80	1.4	mg/l	20.0	1.10	92.5	78-114		18	
--------------------	------	------	-----	------	------	------	------	--------	--	----	--



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
01/06/14 15:04

Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AL32363 - General Preparation											
Blank (AL32363-BLK1) Prepared: 12/23/13 Analyzed: 12/23/14											
Chloride	ND	0.030	0.50	mg/l							U
LCS (AL32363-BS1) Prepared & Analyzed: 12/23/13											
Chloride	10.2	0.030	0.50	mg/l	10.0		102	90-110			
Duplicate (AL32363-DUP1) Source: 13L1508-01 Prepared & Analyzed: 12/23/13											
Chloride	6.11	0.030	0.50	mg/l		6.10			0.180	20	
Matrix Spike (AL32363-MS1) Source: 13L1508-01 Prepared & Analyzed: 12/23/13											
Chloride	15.6	0.030	0.50	mg/l	10.0	6.10	95.2	80-120			
Matrix Spike (AL32363-MS2) Source: 13L1526-01 Prepared & Analyzed: 12/23/13											
Chloride	12.9	0.030	0.50	mg/l	10.0	2.98	99.4	80-120			
Matrix Spike Dup (AL32363-MSD1) Source: 13L1508-01 Prepared & Analyzed: 12/23/13											
Chloride	15.7	0.030	0.50	mg/l	10.0	6.10	95.8	80-120	0.371	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
01/06/14 15:04

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- T-18 Client did not provide field temperature. Result calculated using temperature of 20 deg C.
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Golder Associates CHAIN OF CUSTODY

13L1242 s.d.
Page 1 of 1
Quotation No. *perp*

PROJECT NO.: 063-7109-914		SITE NAME: Quarterly		ANALYSES		EDD required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
SAMPLER(S): David Walker (printed), Ian Sharkey (signature)		Lehigh Stg permit		Hardness, Cr6, Mercury 1631, TDS, Chloride, TR, P13, Lead Series		EDF required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
CONTRACT LABORATORY: Alpha		Container Info		Type/Vol.		Cont. Qty.			
TURN-AROUND TIME: Standard		Matrix		Filter		Remarks			
Sample I.D.	Lab I.D.	Collection		No	No	No	No		
		Date	Time					Preserv.	Depth
Pond 4A Eff M-001		12-17-13	0940	W	X	X	X	6	1631 SAMPLES REC. IN DUBLIN -JFC
Pond 9 Eff M-002		1230		X	X	X	X	6	
Pond 9 4p R-001B		1240		X	X	X	X	1	
Pond 9 DN R-002B		1250		X	X	X	X	4	
Pond 13 Eff M-003 (40)		1325		X	X	X	X	6	
Pond 17 Eff M-004		1340		X	X	X	X	4	
Pond 17 DN R-003D		1415		X	X	X	X	6	
Downstream		1430		X	X	X	X	6	
Duplicate		1430		X	X	X	X	2	
Field Blank									

SEND RESULTS TO:
 Attn: George Wegmann, Greg Knapp,
 Golder Associates Inc.
 425 Lakeside Drive
 Sunnyvale, CA 94085
 Phone (408) 220-9223
 Fax (408) 220-9224
 Chow Yip

Relinquished by (signature): *David C. Walt*
 Relinquished by (signature): *David C. Walt*
 Relinquished by (signature): *Rodney Santillan*
 Received by (signature): *Rodney Santillan*
 Received by (signature): *Rodney Santillan*
 Date/Time: 12-17-13 1600
 Date/Time: 12-17-13 1700
 Date/Time: 12-17-13 18:00
 Date/Time: 12-17-13 8:20

January 10, 2014

Alpha Analytical Laboratories Inc.
ATTN: Robbie Phillips
208 Mason St.
Ukiah, CA 95482
robbie@alpha-labs.com

RE: Project AAL-DB1301

Client Project: 13L1242

Dear Mr. Phillips,

On December 20, 2013, Brooks Rand Labs (BRL) received eight (8) water samples. The samples were logged-in for the contracted analyses of total silver (Ag), arsenic (As), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), nickel (Ni), lead (Pb), antimony (Sb), selenium (Se), thallium (Tl), and zinc (Zn) according to the chain-of-custody (COC) forms. Samples for dissolved analyses were field filtered. The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

The sample *13L1242-09 Field Blank* (1351034-08) was labeled as a field blank and had Cu, Pb, and Zn concentrations above the MRL. All associated samples had Cu and Zn concentrations greater than 10x the concentration of the field blank. The Pb results for the samples may demonstrate possible contamination through field sample collection techniques employed.

The results were blank-corrected as described in the calculations section of the relevant SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. Aside from concentration qualifiers, all data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,



Lydia Greaves
Project Manager
lydia@brooksrands.com

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <<http://www.brooksrand.com/default.asp?contentID=586>>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
CRM	certified reference material	RPD	relative percent difference
D	dissolved fraction	RSD	relative standard deviation
DUP	duplicate	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction
IBL	instrument blank		

Definition of Data Qualifiers

(Effective 9/23/09)

B	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Result is estimated.
J	Estimated value. A full explanation is presented in the narrative.
J-M	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N	Spike recovery was not within acceptance criteria. Result is estimated.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
13L1242-01 Pond 4A EFF M-001	1351034-01	Water	Sample	12/17/2013	12/20/2013
13L1242-02 Pond 9 EFF M-002	1351034-02	Water	Sample	12/17/2013	12/20/2013
13L1242-04 Pond 9 DN R-002B	1351034-03	Water	Sample	12/17/2013	12/20/2013
13L1242-05 Pond 17 EFF M-004	1351034-04	Water	Sample	12/17/2013	12/20/2013
13L1242-06 Pond 17 DN R-002D	1351034-05	Water	Sample	12/17/2013	12/20/2013
13L1242-07 Downstream	1351034-06	Water	Sample	12/17/2013	12/20/2013
13L1242-08 Duplicate	1351034-07	Water	Sample	12/17/2013	12/20/2013
13L1242-09 Field Blank	1351034-08	Water	Field Blank	12/17/2013	12/20/2013

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ag	Water	EPA 1638	12/31/2013	01/06/2014	B132273	1400012
As	Water	EPA 1638 DRC	12/31/2013	01/03/2014	B132274	1400007
Be	Water	EPA 1638	12/31/2013	01/06/2014	B132273	1400012
Cd	Water	EPA 1638	12/31/2013	01/06/2014	B132273	1400012
Cr	Water	EPA 1638 DRC	12/31/2013	01/02/2014	B132275	1400004
Cu	Water	EPA 1638	12/31/2013	01/06/2014	B132273	1400012
Ni	Water	EPA 1638 DRC	12/31/2013	01/02/2014	B132275	1400004
Pb	Water	EPA 1638	12/31/2013	01/06/2014	B132273	1400012
Sb	Water	EPA 1638	12/31/2013	01/06/2014	B132273	1400012
Se	Water	EPA 1638 DRC	12/31/2013	01/03/2014	B132274	1400007
Tl	Water	EPA 1638	12/31/2013	01/06/2014	B132273	1400012
Zn	Water	EPA 1638	12/31/2013	01/06/2014	B132273	1400012



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
13L1242-01 Pond 4A EFF M-001										
1351034-01	Ag	Water	T	0.005	U	0.005	0.021	µg/L	B132273	1400012
1351034-01	As	Water	T	1.07		0.009	0.032	µg/L	B132274	1400007
1351034-01	Be	Water	T	0.053	U	0.053	0.158	µg/L	B132273	1400012
1351034-01	Cd	Water	T	0.373		0.007	0.021	µg/L	B132273	1400012
1351034-01	Cr	Water	T	0.643	B	0.395	1.18	µg/L	B132275	1400004
1351034-01	Cu	Water	T	2.55		0.042	0.126	µg/L	B132273	1400012
1351034-01	Ni	Water	T	14.1		1.32	5.26	µg/L	B132275	1400004
1351034-01	Pb	Water	T	0.042		0.006	0.026	µg/L	B132273	1400012
1351034-01	Sb	Water	T	2.87		0.011	0.042	µg/L	B132273	1400012
1351034-01	Se	Water	T	20.4		0.021	0.063	µg/L	B132274	1400007
1351034-01	Tl	Water	T	0.237		0.003	0.011	µg/L	B132273	1400012
1351034-01	Zn	Water	T	4.65		0.06	0.21	µg/L	B132273	1400012
13L1242-02 Pond 9 EFF M-002										
1351034-02	Ag	Water	T	0.006	B	0.005	0.021	µg/L	B132273	1400012
1351034-02	As	Water	T	0.871		0.009	0.032	µg/L	B132274	1400007
1351034-02	Be	Water	T	0.053	U	0.053	0.158	µg/L	B132273	1400012
1351034-02	Cd	Water	T	0.115		0.007	0.021	µg/L	B132273	1400012
1351034-02	Cr	Water	T	3.55		0.395	1.18	µg/L	B132275	1400004
1351034-02	Cu	Water	T	3.37		0.042	0.126	µg/L	B132273	1400012
1351034-02	Ni	Water	T	4.27	B	1.32	5.26	µg/L	B132275	1400004
1351034-02	Pb	Water	T	0.080		0.006	0.026	µg/L	B132273	1400012
1351034-02	Sb	Water	T	0.388		0.011	0.042	µg/L	B132273	1400012
1351034-02	Se	Water	T	3.20		0.021	0.063	µg/L	B132274	1400007
1351034-02	Tl	Water	T	0.222		0.003	0.011	µg/L	B132273	1400012
1351034-02	Zn	Water	T	7.78		0.06	0.21	µg/L	B132273	1400012
13L1242-04 Pond 9 DN R-002B										
1351034-03	Ag	Water	T	0.005	U	0.005	0.021	µg/L	B132273	1400012
1351034-03	As	Water	T	0.736		0.009	0.032	µg/L	B132274	1400007
1351034-03	Be	Water	T	0.053	U	0.053	0.158	µg/L	B132273	1400012
1351034-03	Cd	Water	T	0.118		0.007	0.021	µg/L	B132273	1400012
1351034-03	Cr	Water	T	2.88		0.395	1.18	µg/L	B132275	1400004
1351034-03	Cu	Water	T	3.48		0.042	0.126	µg/L	B132273	1400012
1351034-03	Ni	Water	T	6.21		1.32	5.26	µg/L	B132275	1400004
1351034-03	Pb	Water	T	0.105		0.006	0.026	µg/L	B132273	1400012
1351034-03	Sb	Water	T	0.334		0.011	0.042	µg/L	B132273	1400012
1351034-03	Se	Water	T	3.44		0.021	0.063	µg/L	B132274	1400007
1351034-03	Tl	Water	T	0.184		0.003	0.011	µg/L	B132273	1400012
1351034-03	Zn	Water	T	8.51		0.06	0.21	µg/L	B132273	1400012



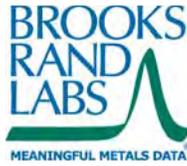
Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
13L1242-05 Pond 17 EFF M-004										
1351034-04	Ag	Water	T	0.006	B	0.005	0.021	µg/L	B132273	1400012
1351034-04	As	Water	T	0.504		0.009	0.032	µg/L	B132274	1400007
1351034-04	Be	Water	T	0.053	U	0.053	0.158	µg/L	B132273	1400012
1351034-04	Cd	Water	T	0.102		0.007	0.021	µg/L	B132273	1400012
1351034-04	Cr	Water	T	0.956	B	0.395	1.18	µg/L	B132275	1400004
1351034-04	Cu	Water	T	3.45		0.042	0.126	µg/L	B132273	1400012
1351034-04	Ni	Water	T	8.36		1.32	5.26	µg/L	B132275	1400004
1351034-04	Pb	Water	T	0.055		0.006	0.026	µg/L	B132273	1400012
1351034-04	Sb	Water	T	1.21		0.011	0.042	µg/L	B132273	1400012
1351034-04	Se	Water	T	7.66		0.021	0.063	µg/L	B132274	1400007
1351034-04	Tl	Water	T	0.154		0.003	0.011	µg/L	B132273	1400012
1351034-04	Zn	Water	T	7.04		0.06	0.21	µg/L	B132273	1400012
13L1242-06 Pond 17 DN R-002D										
1351034-05	Ag	Water	T	0.005	U	0.005	0.021	µg/L	B132273	1400012
1351034-05	As	Water	T	0.494		0.009	0.032	µg/L	B132274	1400007
1351034-05	Be	Water	T	0.053	U	0.053	0.158	µg/L	B132273	1400012
1351034-05	Cd	Water	T	0.084		0.007	0.021	µg/L	B132273	1400012
1351034-05	Cr	Water	T	1.01	B	0.395	1.18	µg/L	B132275	1400004
1351034-05	Cu	Water	T	3.11		0.042	0.126	µg/L	B132273	1400012
1351034-05	Ni	Water	T	6.36		1.32	5.26	µg/L	B132275	1400004
1351034-05	Pb	Water	T	0.038		0.006	0.026	µg/L	B132273	1400012
1351034-05	Sb	Water	T	0.665		0.011	0.042	µg/L	B132273	1400012
1351034-05	Se	Water	T	4.68		0.021	0.063	µg/L	B132274	1400007
1351034-05	Tl	Water	T	0.126		0.003	0.011	µg/L	B132273	1400012
1351034-05	Zn	Water	T	7.91		0.06	0.21	µg/L	B132273	1400012
13L1242-07 Downstream										
1351034-06	Ag	Water	T	0.005	U	0.005	0.021	µg/L	B132273	1400012
1351034-06	As	Water	T	0.552		0.009	0.032	µg/L	B132274	1400007
1351034-06	Be	Water	T	0.053	U	0.053	0.158	µg/L	B132273	1400012
1351034-06	Cd	Water	T	0.065		0.007	0.021	µg/L	B132273	1400012
1351034-06	Cr	Water	T	1.05	B	0.395	1.18	µg/L	B132275	1400004
1351034-06	Cu	Water	T	3.30		0.042	0.126	µg/L	B132273	1400012
1351034-06	Ni	Water	T	6.67		1.32	5.26	µg/L	B132275	1400004
1351034-06	Pb	Water	T	0.085		0.006	0.026	µg/L	B132273	1400012
1351034-06	Sb	Water	T	0.346		0.011	0.042	µg/L	B132273	1400012
1351034-06	Se	Water	T	2.35		0.021	0.063	µg/L	B132274	1400007
1351034-06	Tl	Water	T	0.106		0.003	0.011	µg/L	B132273	1400012
1351034-06	Zn	Water	T	5.47		0.06	0.21	µg/L	B132273	1400012



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
13L1242-08 Duplicate										
1351034-07	Ag	Water	T	0.005	U	0.005	0.021	µg/L	B132273	1400012
1351034-07	As	Water	T	0.580		0.009	0.032	µg/L	B132274	1400007
1351034-07	Be	Water	T	0.053	U	0.053	0.158	µg/L	B132273	1400012
1351034-07	Cd	Water	T	0.067		0.007	0.021	µg/L	B132273	1400012
1351034-07	Cr	Water	T	1.04	B	0.395	1.18	µg/L	B132275	1400004
1351034-07	Cu	Water	T	3.25		0.042	0.126	µg/L	B132273	1400012
1351034-07	Ni	Water	T	7.44		1.32	5.26	µg/L	B132275	1400004
1351034-07	Pb	Water	T	0.100		0.006	0.026	µg/L	B132273	1400012
1351034-07	Sb	Water	T	0.342		0.011	0.042	µg/L	B132273	1400012
1351034-07	Se	Water	T	2.37		0.021	0.063	µg/L	B132274	1400007
1351034-07	Tl	Water	T	0.103		0.003	0.011	µg/L	B132273	1400012
1351034-07	Zn	Water	T	6.07		0.06	0.21	µg/L	B132273	1400012
13L1242-09 Field Blank										
1351034-08	Ag	Water	T	0.005	U	0.005	0.021	µg/L	B132273	1400012
1351034-08	As	Water	T	0.009	U	0.009	0.032	µg/L	B132274	1400007
1351034-08	Be	Water	T	0.053	U	0.053	0.158	µg/L	B132273	1400012
1351034-08	Cd	Water	T	0.007	U	0.007	0.021	µg/L	B132273	1400012
1351034-08	Cr	Water	T	0.041	B	0.016	0.047	µg/L	B132275	1400004
1351034-08	Cu	Water	T	0.270		0.042	0.126	µg/L	B132273	1400012
1351034-08	Ni	Water	T	0.053	U	0.053	0.211	µg/L	B132275	1400004
1351034-08	Pb	Water	T	0.063		0.006	0.026	µg/L	B132273	1400012
1351034-08	Sb	Water	T	0.011	U	0.011	0.042	µg/L	B132273	1400012
1351034-08	Se	Water	T	0.021	U	0.021	0.063	µg/L	B132274	1400007
1351034-08	Tl	Water	T	0.003	U	0.003	0.011	µg/L	B132273	1400012
1351034-08	Zn	Water	T	0.54		0.06	0.21	µg/L	B132273	1400012



Accuracy & Precision Summary

Batch: B132273
Lab Matrix: Water
Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B132273-BS1	Laboratory Fortified Blank (1351061)						
		Ag		0.4211	0.402	µg/L	96% 75-125
		Be		3.158	3.137	µg/L	99% 75-125
		Cd		0.2105	0.210	µg/L	100% 75-125
		Cu		2.105	2.026	µg/L	96% 75-125
		Pb		0.5259	0.543	µg/L	103% 75-125
		Sb		0.4211	0.390	µg/L	93% 75-125
		Tl		0.2105	0.217	µg/L	103% 75-125
	Zn		4.211	4.33	µg/L	103% 75-125	
B132273-SRM1	Certified Reference Material (1323040, NIST 1643e)						
		Ag		1.062	1.021	µg/L	96% 75-125
		Be		13.98	13.27	µg/L	95% 75-125
		Cd		6.568	6.275	µg/L	96% 75-125
		Cu		22.76	22.94	µg/L	101% 75-125
		Pb		19.63	19.52	µg/L	99% 75-125
		Sb		58.30	54.16	µg/L	93% 75-125
		Tl		7.445	7.392	µg/L	99% 75-125
	Zn		78.50	78.81	µg/L	100% 75-125	
B132273-DUP1	Duplicate (1351034-01)						
		Ag	ND		ND	µg/L	N/C 20
		Be	ND		ND	µg/L	N/C 20
		Cd	0.373		0.380	µg/L	2% 20
		Cu	2.551		2.528	µg/L	0.9% 20
		Pb	0.042		0.041	µg/L	3% 20
		Sb	2.870		2.883	µg/L	0.5% 20
		Tl	0.237		0.238	µg/L	0.4% 20
	Zn	4.65		4.49	µg/L	4% 20	



Accuracy & Precision Summary

Batch: B132273
Lab Matrix: Water
Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B132273-MS1	Matrix Spike (1351034-01)						
	Ag	ND	1.053	1.020	µg/L	97% 75-125	
	Be	ND	1.053	1.053	µg/L	100% 75-125	
	Cd	0.373	4.211	4.129	µg/L	89% 75-125	
	Cu	2.551	21.05	21.09	µg/L	88% 75-125	
	Pb	0.042	0.5259	0.531	µg/L	93% 75-125	
	Sb	2.870	31.58	32.32	µg/L	93% 75-125	
	Tl	0.237	2.632	2.707	µg/L	94% 75-125	
Zn	4.65	52.63	57.80	µg/L	101% 75-125		
B132273-MSD1	Matrix Spike Duplicate (1351034-01)						
	Ag	ND	1.053	1.019	µg/L	97% 75-125	0.08% 20
	Be	ND	1.053	1.089	µg/L	103% 75-125	3% 20
	Cd	0.373	4.211	4.113	µg/L	89% 75-125	0.4% 20
	Cu	2.551	21.05	21.18	µg/L	88% 75-125	0.4% 20
	Pb	0.042	0.5259	0.538	µg/L	94% 75-125	1% 20
	Sb	2.870	31.58	32.24	µg/L	93% 75-125	0.2% 20
	Tl	0.237	2.632	2.711	µg/L	94% 75-125	0.1% 20
Zn	4.65	52.63	56.91	µg/L	99% 75-125	2% 20	



Accuracy & Precision Summary

Batch: B132274
Lab Matrix: Water
Method: EPA 1638 DRC

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B132274-BS1	Laboratory Fortified Blank (1351061)						
	As		5.263	5.180	µg/L	98% 75-125	
	Se		6.316	5.933	µg/L	94% 75-125	
B132274-SRM1	Certified Reference Material (1323040, NIST 1643e)						
	As		60.45	59.53	µg/L	98% 75-125	
	Se		11.97	12.36	µg/L	103% 75-125	
B132274-DUP1	Duplicate (1351034-01)						
	As	1.073		0.963	µg/L		11% 20
	Se	20.43		19.74	µg/L		3% 20
B132274-MS1	Matrix Spike (1351034-01)						
	As	1.073	1.053	2.070	µg/L	95% 75-125	
	Se	20.43	21.05	38.18	µg/L	84% 75-125	
B132274-MSD1	Matrix Spike Duplicate (1351034-01)						
	As	1.073	1.053	2.168	µg/L	104% 75-125	5% 20
	Se	20.43	21.05	38.87	µg/L	88% 75-125	2% 20



Accuracy & Precision Summary

Batch: B132275
Lab Matrix: Water
Method: EPA 1638 DRC

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B132275-BS1	Laboratory Fortified Blank (1351061)						
	Cr		3.162	3.305	µg/L	105% 75-125	
	Ni		4.211	3.998	µg/L	95% 75-125	
B132275-SRM1	Certified Reference Material (1323040, NIST 1643e)						
	Cr		20.40	19.20	µg/L	94% 75-125	
	Ni		62.41	56.54	µg/L	91% 75-125	
B132275-DUP1	Duplicate (1351034-01)						
	Cr	0.643		ND	µg/L		N/C 20
	Ni	14.11		14.17	µg/L		0.4% 20
B132275-MS1	Matrix Spike (1351034-01)						
	Cr	0.643	52.68	54.84	µg/L	103% 75-125	
	Ni	14.11	263.2	262.1	µg/L	94% 75-125	
B132275-MSD1	Matrix Spike Duplicate (1351034-01)						
	Cr	0.643	52.68	54.91	µg/L	103% 75-125	0.1% 20
	Ni	14.11	263.2	260.6	µg/L	94% 75-125	0.6% 20



Method Blanks & Reporting Limits

Batch: B132273
Matrix: Water
Method: EPA 1638
Analyte: Ag 107

Sample	Result	Units		
B132273-BLK1	-0.003	µg/L		
B132273-BLK2	-0.003	µg/L		
B132273-BLK3	-0.003	µg/L		
B132273-BLK4	-0.003	µg/L		
Average:	-0.003		Standard Deviation:	0.000
Limit:	0.021		Limit:	0.005
			MDL:	0.005
			MRL:	0.021

Analyte: Be

Sample	Result	Units		
B132273-BLK1	-0.0008	µg/L		
B132273-BLK2	-0.0005	µg/L		
B132273-BLK3	-0.0002	µg/L		
B132273-BLK4	-0.0006	µg/L		
Average:	-0.001		Standard Deviation:	0.000
Limit:	0.158		Limit:	0.053
			MDL:	0.053
			MRL:	0.158

Analyte: Cd 114

Sample	Result	Units		
B132273-BLK1	-0.001	µg/L		
B132273-BLK2	-0.0007	µg/L		
B132273-BLK3	-0.001	µg/L		
B132273-BLK4	-0.001	µg/L		
Average:	-0.001		Standard Deviation:	0.000
Limit:	0.021		Limit:	0.007
			MDL:	0.007
			MRL:	0.021



Method Blanks & Reporting Limits

Analyte: Cu 63

Sample	Result	Units			
B132273-BLK1	-0.010	µg/L			
B132273-BLK2	-0.009	µg/L			
B132273-BLK3	-0.011	µg/L			
B132273-BLK4	-0.011	µg/L			
Average:	-0.010		Standard Deviation:	0.001	MDL: 0.042
Limit:	0.126		Limit:	0.042	MRL: 0.126

Analyte: Pb

Sample	Result	Units			
B132273-BLK1	-0.003	µg/L			
B132273-BLK2	-0.002	µg/L			
B132273-BLK3	-0.002	µg/L			
B132273-BLK4	-0.003	µg/L			
Average:	-0.003		Standard Deviation:	0.001	MDL: 0.006
Limit:	0.026		Limit:	0.006	MRL: 0.026

Analyte: Sb

Sample	Result	Units			
B132273-BLK1	-0.0008	µg/L			
B132273-BLK2	-0.001	µg/L			
B132273-BLK3	-0.0009	µg/L			
B132273-BLK4	-0.0008	µg/L			
Average:	-0.001		Standard Deviation:	0.000	MDL: 0.011
Limit:	0.042		Limit:	0.011	MRL: 0.042

Analyte: Tl

Sample	Result	Units			
B132273-BLK1	-0.0009	µg/L			
B132273-BLK2	-0.0009	µg/L			
B132273-BLK3	-0.0009	µg/L			
B132273-BLK4	-0.0009	µg/L			
Average:	-0.001		Standard Deviation:	0.000	MDL: 0.003
Limit:	0.011		Limit:	0.003	MRL: 0.011



Method Blanks & Reporting Limits

Analyte: Zn 66

Sample	Result	Units		
B132273-BLK1	-0.009	µg/L		
B132273-BLK2	-0.02	µg/L		
B132273-BLK3	-0.005	µg/L		
B132273-BLK4	-0.02	µg/L		
Average:	-0.01		Standard Deviation:	0.01
Limit:	0.21		Limit:	0.06
			MDL:	0.06
			MRL:	0.21



Method Blanks & Reporting Limits

Batch: B132274
Matrix: Water
Method: EPA 1638 DRC
Analyte: As 91

Sample	Result	Units			
B132274-BLK1	0.003	µg/L			
B132274-BLK2	-0.0005	µg/L			
B132274-BLK3	0.0008	µg/L			
B132274-BLK4	0.0008	µg/L			
Average:	0.001		Standard Deviation:	0.001	MDL: 0.009
Limit:	0.032		Limit:	0.009	MRL: 0.032

Analyte: Se 78

Sample	Result	Units			
B132274-BLK1	0.011	µg/L			
B132274-BLK2	0.010	µg/L			
B132274-BLK3	0.010	µg/L			
B132274-BLK4	0.011	µg/L			
Average:	0.011		Standard Deviation:	0.001	MDL: 0.021
Limit:	0.063		Limit:	0.021	MRL: 0.063



Method Blanks & Reporting Limits

Batch: B132275
Matrix: Water
Method: EPA 1638 DRC
Analyte: Cr 52

Sample	Result	Units		
B132275-BLK1	0.004	µg/L		
B132275-BLK2	0.004	µg/L		
B132275-BLK3	0.003	µg/L		
B132275-BLK4	0.004	µg/L		
Average:	0.004		Standard Deviation:	0.001
Limit:	0.047		Limit:	0.016
			MDL:	0.016
			MRL:	0.047

Analyte: Ni 62

Sample	Result	Units		
B132275-BLK1	0.062	µg/L		
B132275-BLK2	0.048	µg/L		
B132275-BLK3	0.055	µg/L		
B132275-BLK4	0.054	µg/L		
Average:	0.055		Standard Deviation:	0.006
Limit:	0.211		Limit:	0.053
			MDL:	0.053
			MRL:	0.211

Project ID: AAL-DB1301
PM: Lydia Greaves



BRL Report 1351034
Client PM: Robbie Phillips
Client PO: 130903RP-1

Sample Containers

Lab ID: 1351034-01 Sample: 13L1242-01 Pond 4A EFF M-001	Report Matrix: Water Sample Type: Sample	Collected: 12/17/2013 Received: 12/20/2013
Des Container A Client-Provided	Size 500 mL	Lot n/a
Preservation 0.1% HNO3	P-Lot 1113030	pH Ship. Cont. Cooler
Lab ID: 1351034-02 Sample: 13L1242-02 Pond 9 EFF M-002	Report Matrix: Water Sample Type: Sample	Collected: 12/17/2013 Received: 12/20/2013
Des Container A Client-Provided	Size 500 mL	Lot n/a
Preservation 0.1% HNO3	P-Lot 1113030	pH Ship. Cont. Cooler
Lab ID: 1351034-03 Sample: 13L1242-04 Pond 9 DN R-002B	Report Matrix: Water Sample Type: Sample	Collected: 12/17/2013 Received: 12/20/2013
Des Container A Client-Provided	Size 500 mL	Lot n/a
Preservation 0.1% HNO3	P-Lot 1113030	pH Ship. Cont. Cooler
Lab ID: 1351034-04 Sample: 13L1242-05 Pond 17 EFF M-004	Report Matrix: Water Sample Type: Sample	Collected: 12/17/2013 Received: 12/20/2013
Des Container A Client-Provided	Size 500 mL	Lot n/a
Preservation 0.1% HNO3	P-Lot 1113030	pH Ship. Cont. Cooler
Lab ID: 1351034-05 Sample: 13L1242-06 Pond 17 DN R-002D	Report Matrix: Water Sample Type: Sample	Collected: 12/17/2013 Received: 12/20/2013
Des Container A Client-Provided	Size 500 mL	Lot n/a
Preservation 0.1% HNO3	P-Lot 1113030	pH Ship. Cont. Cooler
Lab ID: 1351034-06 Sample: 13L1242-07 Downstream	Report Matrix: Water Sample Type: Sample	Collected: 12/17/2013 Received: 12/20/2013
Des Container A Client-Provided	Size 500 mL	Lot n/a
Preservation 0.1% HNO3	P-Lot 1113030	pH Ship. Cont. Cooler
Lab ID: 1351034-07 Sample: 13L1242-08 Duplicate	Report Matrix: Water Sample Type: Sample	Collected: 12/17/2013 Received: 12/20/2013
Des Container A Client-Provided	Size 500 mL	Lot n/a
Preservation 0.1% HNO3	P-Lot 1113030	pH Ship. Cont. Cooler

Project ID: AAL-DB1301
PM: Lydia Greaves



BRL Report 1351034
Client PM: Robbie Phillips
Client PO: 130903RP-1

Sample Containers

Lab ID: 1351034-08	Report Matrix: Water	Collected: 12/17/2013				
Sample: 13L1242-09 Field Blank	Sample Type: Field Blank	Received: 12/20/2013				
Des Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A Client-Provided	500 mL	n/a	0.1% HNO3	1113030		Cooler

Shipping Containers

Cooler

Received: December 20, 2013 10:22
Tracking No: 1Z8942500147842128 via
Coolant Type: Ice
Temperature: -0.8 °C

Description: Cooler
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

SUBCONTRACT ORDER
Alpha Analytical Laboratories, Inc.
13L1242

SENDING LABORATORY:

Alpha Analytical Laboratories, Inc.
 208 Mason St.
 Ukiah, CA 95482
 Phone: (707)468-0401
 Fax: (707)468-5267
 Project Manager: Robbie C. Phillips

RECEIVING LABORATORY:

Brooks Rand Labs, LLC
 3958 6th Avenue NW
 Seattle, WA 98107
 Phone : (206) 632-6206
 Fax: (206) 632-6017
Terms: Net 30

Analysis	Due	Expires	Comments
----------	-----	---------	----------

13L1242-01 Pond 4A EFF M-001 [Water] Sampled 12/17/13 09:40 Pacific

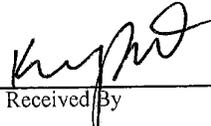
1638 Sb Total ICPMS	01/07/14 12:00	06/15/14 09:40	
1638 Ag Total ICPMS	01/07/14 12:00	06/15/14 09:40	
1638 Zn Total ICPMS	01/07/14 12:00	06/15/14 09:40	
1638 Se Total ICPMS	01/07/14 12:00	06/15/14 09:40	
1638 Pb Total ICPMS	01/07/14 12:00	06/15/14 09:40	
1638 Ni Total ICPMS	01/07/14 12:00	06/15/14 09:40	
1638 Cu Total ICPMS	01/07/14 12:00	06/15/14 09:40	
1638 Cr Total ICPMS	01/07/14 12:00	06/15/14 09:40	
1638 Cd Total ICPMS	01/07/14 12:00	06/15/14 09:40	
1638 Be Total ICPMS	01/07/14 12:00	06/15/14 09:40	
1638 As Total ICPMS	01/07/14 12:00	06/15/14 09:40	
1638 Tl Total ICPMS	01/07/14 12:00	06/15/14 09:40	

Containers Supplied:
 500ml Glass - Unpreserve

13L1242-02 Pond 9 EFF M-002 [Water] Sampled 12/17/13 12:30 Pacific

1638 Be Total ICPMS	01/07/14 12:00	06/15/14 12:30	
1638 Ni Total ICPMS	01/07/14 12:00	06/15/14 12:30	
1638 Tl Total ICPMS	01/07/14 12:00	06/15/14 12:30	
1638 Se Total ICPMS	01/07/14 12:00	06/15/14 12:30	
1638 Sb Total ICPMS	01/07/14 12:00	06/15/14 12:30	
1638 Pb Total ICPMS	01/07/14 12:00	06/15/14 12:30	
1638 Cu Total ICPMS	01/07/14 12:00	06/15/14 12:30	
1638 Cd Total ICPMS	01/07/14 12:00	06/15/14 12:30	
1638 Zn Total ICPMS	01/07/14 12:00	06/15/14 12:30	
1638 As Total ICPMS	01/07/14 12:00	06/15/14 12:30	
1638 Ag Total ICPMS	01/07/14 12:00	06/15/14 12:30	
1638 Cr Total ICPMS	01/07/14 12:00	06/15/14 12:30	

Containers Supplied:
 500ml Glass - Unpreserve

	12-19-13		12/20/13
Released By	Date	Received By	Date

Released By	Date	Received By	Date
-------------	------	-------------	------

SUBCONTRACT ORDER
Alpha Analytical Laboratories, Inc.
13L1242

Analysis	Due	Expires	Comments
----------	-----	---------	----------

13L1242-04 Pond 9 DN R-002B [Water] Sampled 12/17/13 12:50 Pacific

1638 Ni Total ICPMS	01/07/14 12:00	06/15/14 12:50	
1638 Zn Total ICPMS	01/07/14 12:00	06/15/14 12:50	
1638 Tl Total ICPMS	01/07/14 12:00	06/15/14 12:50	
1638 Se Total ICPMS	01/07/14 12:00	06/15/14 12:50	
1638 Sb Total ICPMS	01/07/14 12:00	06/15/14 12:50	
1638 Pb Total ICPMS	01/07/14 12:00	06/15/14 12:50	
1638 Cr Total ICPMS	01/07/14 12:00	06/15/14 12:50	
1638 Cd Total ICPMS	01/07/14 12:00	06/15/14 12:50	
1638 Be Total ICPMS	01/07/14 12:00	06/15/14 12:50	
1638 Ag Total ICPMS	01/07/14 12:00	06/15/14 12:50	
1638 Cu Total ICPMS	01/07/14 12:00	06/15/14 12:50	
1638 As Total ICPMS	01/07/14 12:00	06/15/14 12:50	

Containers Supplied:

500ml Glass - Unpreserve

13L1242-05 Pond 17 EFF M-004 [Water] Sampled 12/17/13 13:25 Pacific

1638 Be Total ICPMS	01/07/14 12:00	06/15/14 13:25	
1638 Zn Total ICPMS	01/07/14 12:00	06/15/14 13:25	
1638 Se Total ICPMS	01/07/14 12:00	06/15/14 13:25	
1638 Sb Total ICPMS	01/07/14 12:00	06/15/14 13:25	
1638 Pb Total ICPMS	01/07/14 12:00	06/15/14 13:25	
1638 Ni Total ICPMS	01/07/14 12:00	06/15/14 13:25	
1638 Cu Total ICPMS	01/07/14 12:00	06/15/14 13:25	
1638 Cd Total ICPMS	01/07/14 12:00	06/15/14 13:25	
1638 As Total ICPMS	01/07/14 12:00	06/15/14 13:25	
1638 Ag Total ICPMS	01/07/14 12:00	06/15/14 13:25	
1638 Tl Total ICPMS	01/07/14 12:00	06/15/14 13:25	
1638 Cr Total ICPMS	01/07/14 12:00	06/15/14 13:25	

Containers Supplied:

500ml Glass - Unpreserve

	12-19-13		12/20/13
Released By	Date	Received By	Date

Released By	Date	Received By	Date
-------------	------	-------------	------

SUBCONTRACT ORDER
Alpha Analytical Laboratories, Inc.
13L1242

Analysis	Due	Expires	Comments
----------	-----	---------	----------

13L1242-06 Pond 17 DN R-002D [Water] Sampled 12/17/13 13:40 Pacific

1638 Sb Total ICPMS	01/07/14 12:00	06/15/14 13:40	
1638 Ag Total ICPMS	01/07/14 12:00	06/15/14 13:40	
1638 Zn Total ICPMS	01/07/14 12:00	06/15/14 13:40	
1638 Se Total ICPMS	01/07/14 12:00	06/15/14 13:40	
1638 Pb Total ICPMS	01/07/14 12:00	06/15/14 13:40	
1638 Ni Total ICPMS	01/07/14 12:00	06/15/14 13:40	
1638 Cu Total ICPMS	01/07/14 12:00	06/15/14 13:40	
1638 Cr Total ICPMS	01/07/14 12:00	06/15/14 13:40	
1638 Cd Total ICPMS	01/07/14 12:00	06/15/14 13:40	
1638 Be Total ICPMS	01/07/14 12:00	06/15/14 13:40	
1638 As Total ICPMS	01/07/14 12:00	06/15/14 13:40	
1638 Tl Total ICPMS	01/07/14 12:00	06/15/14 13:40	

Containers Supplied:

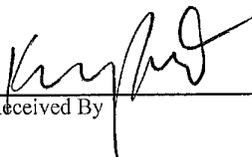
500ml Glass - Unpreserve

13L1242-07 Downstream [Water] Sampled 12/17/13 14:15 Pacific

1638 Cd Total ICPMS	01/07/14 12:00	06/15/14 14:15	
1638 Ni Total ICPMS	01/07/14 12:00	06/15/14 14:15	
1638 Tl Total ICPMS	01/07/14 12:00	06/15/14 14:15	
1638 Se Total ICPMS	01/07/14 12:00	06/15/14 14:15	
1638 Sb Total ICPMS	01/07/14 12:00	06/15/14 14:15	
1638 Pb Total ICPMS	01/07/14 12:00	06/15/14 14:15	
1638 Cr Total ICPMS	01/07/14 12:00	06/15/14 14:15	
1638 Zn Total ICPMS	01/07/14 12:00	06/15/14 14:15	
1638 Be Total ICPMS	01/07/14 12:00	06/15/14 14:15	
1638 As Total ICPMS	01/07/14 12:00	06/15/14 14:15	
1638 Ag Total ICPMS	01/07/14 12:00	06/15/14 14:15	
1638 Cu Total ICPMS	01/07/14 12:00	06/15/14 14:15	

Containers Supplied:

500ml Glass - Unpreserve

	12-19-13		12/20/13
Released By	Date	Received By	Date
Released By	Date	Received By	Date

SUBCONTRACT ORDER

Alpha Analytical Laboratories, Inc.

13L1242

Analysis	Due	Expires	Comments
----------	-----	---------	----------

13L1242-08 Duplicate [Water] Sampled 12/17/13 14:30 Pacific

1638 Ag Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Pb Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Ni Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Cu Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Cr Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Cd Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Be Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 As Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Zn Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Tl Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Sb Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Se Total ICPMS	01/07/14 12:00	06/15/14 14:30	

Containers Supplied:

500ml Glass - Unpreserve

13L1242-09 Field Blank [Water] Sampled 12/17/13 14:30 Pacific

1638 Zn Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Tl Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Se Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Sb Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Pb Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Ni Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Cr Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Cd Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Ag Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 As Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Be Total ICPMS	01/07/14 12:00	06/15/14 14:30	
1638 Cu Total ICPMS	01/07/14 12:00	06/15/14 14:30	

Containers Supplied:

500ml Glass - Unpreserve

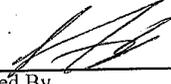
Report to State

System Name: _____ Employed by: _____

User ID: _____ Sampler: _____

System Number: _____

+QC
+J-Flags

	12-19-13		12/20/13
Released By	Date	Received By	Date

Released By	Date	Received By	Date
-------------	------	-------------	------



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

02 January 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13L1363

Enclosed are the results of analyses for samples received by the laboratory on 12/18/13 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

01/02/14 15:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Composite	13L1363-01	Water	12/18/13 11:00	12/18/13 21:00
Pond 9 Composite	13L1363-02	Water	12/18/13 09:55	12/18/13 21:00
Pond 17 Composite	13L1363-03	Water	12/18/13 10:25	12/18/13 21:00

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

01/02/14 15:56

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 4A Composite (13L1363-01) Water Sampled: 12/18/13 11:00 Received: 12/18/13 21:00											
Total Suspended Solids	0.60	0.30	0.50		mg/l	1	AL32357	12/24/13 12:38	01/02/14 12:04	SM2540D	
Pond 9 Composite (13L1363-02) Water Sampled: 12/18/13 09:55 Received: 12/18/13 21:00											
Total Suspended Solids	3.6	0.30	0.50		mg/l	1	AL32357	12/24/13 12:38	01/02/14 12:04	SM2540D	
Pond 17 Composite (13L1363-03) Water Sampled: 12/18/13 10:25 Received: 12/18/13 21:00											
Total Suspended Solids	3.4	0.30	0.50		mg/l	1	AL32357	12/24/13 12:38	01/02/14 12:04	SM2540D	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

01/02/14 15:56

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL32357 - General Preparation

Blank (AL32357-BLK1)

Prepared: 12/23/13 Analyzed: 01/02/14

Total Suspended Solids	0.400	0.30	0.50	mg/l							J
------------------------	-------	------	------	------	--	--	--	--	--	--	---

Duplicate (AL32357-DUP1)

Source: 13L1375-01

Prepared: 12/23/13 Analyzed: 01/02/14

Total Suspended Solids	240	0.30	0.50	mg/l		227			5.74	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--

Duplicate (AL32357-DUP2)

Source: 13L1403-02

Prepared: 12/23/13 Analyzed: 01/02/14

Total Suspended Solids	173	0.30	0.50	mg/l		187			7.39	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
01/02/14 15:56

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



Golder Associates
CHAIN OF CUSTODY

13L1363

Page 1 of 1
Quotation No. Invoice Lehigh

PROJECT NO.:		SITE NAME:		ANALYSES		EDD required?	
063-7109-914		Quarterly Composite Lehigh STG permit		[Grid]		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
SAMPLER(S):		Container Info		EDF required?			
David Walter (printed) David C. Staltz (signature)		Type/Vol. Filter Preserv.		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
CONTRACT LABORATORY:		Matrix		Cont. Qty.		Remarks	
Alpha Standard		Depth		1 1 1			
TURN-AROUND TIME:		Collection					
Standard		Date Time					
Sample I.D.	Lab I.D.	Date	Time	Matrix	Depth		
Pond 4A Composite		12-18-13	1100	w			
Pond 9 Composite			0955				
Pond 17 Composite			1025				

Relinquished by: (signature)	Received by: (signature)	Date/Time:	SEND RESULTS TO:
David C. Staltz	Jim John	12-18-13 1200 / 14:50	Attn: George Wegmann, Greg Knapp, Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224
Jim John	Walter	12-18-13 1810	
Jim John	LAB W. end	12-18-13 2100	



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Service Center: 6398 Dougherty Rd., Suite 3, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Client: Lehigh Southwest Cement Company

Lab ID: 13L1477-01

Sample Name: Pond 17 Composite

Sampled: 12/20/2013 10:50

Species: Oncorhynchus mykiss - Rainbow Trout

Conditions: 2 x 5L tanks with 10 fish per tank

Aeration: No If yes (DO <6mg/L), details below:

Aerated at 100 bubbles/min, 1mm ID pipet, air pump

Tanks aerated: _____

Date/time started: _____

Date/time ended: _____

Residual Chlorine: If yes, then sodium thiosulfate was

No added to Control A also.

Acclimation Temp (deg C):
Average Length (mm):
Average Weight (g):
Hatch Date:
Age (Days):

96 Hour Acute Toxicity Screen - Static Renewal

	Sample					Control	
	Initial	24hr	48hr	72hr	Final	Initial	Final
Hardness:	527	530	528	526	528	92	96
Alkalinity:	80	80	80	80	80	63	63
EC:	1199	-	-	-	1318	310	312

Date/Time:	12/20/13 19:00 Initial			12/21/13 17:30 24 Hours				12/22/13 16:00 48 Hours				12/23/13 13:00 72 Hours				12/24/13 13:30 96 Hours				TOTAL #M
	DO	Temp	pH	DO	Temp	pH	#M													
Control A	8.8	11.3	8.1	8.8	11.3	7.9	0	9.2	11.3	8.0	0	8.6	11.7	7.7	0	8.5	11.5	7.9	0	0
Control B	8.8	11.3	8.1	8.8	11.3	7.9	0	8.7	11.6	8.0	0	8.3	11.7	7.7	0	8.3	11.5	7.8	0	0
Sample A	8.2	11.0	7.7	8.6	11.9	7.9	0	9.0	11.5	8.0	0	9.9	12.3	7.8	0	9.8	11.5	7.9	0	0
Sample B	8.2	11.0	7.7	8.6	11.8	7.8	0	9.0	11.6	8.0	0	10.2	12.3	7.8	0	9.7	11.5	7.9	0	0
Analyst:	CEF			TCA				SC				CEF				CEF				

Results: Survival Control
 Survival Sample

EC = conductivity in umhos/cm
Alkalinity and hardness in mg/L
DO = dissolved oxygen in mg/L
Temp = temperature in degrees C
#M = number of mortalities

Authorized Signature: Cheryl K. Paul 1/14/14

Date: _____
Method: EPA-821-R-02-012



Golder Associates CHAIN OF CUSTODY

13L1477

Page 1 of 1

Quotation No. _____

PROJECT NO.: 063 7109 915
SITE NAME: Lehigh Hanson

SAMPLER(S): Jeff Linder (printed) Jeff Linder (signature)

CONTRACT LABORATORY: Alpha
TURN-AROUND TIME: Standard

ANALYSES
96hr Acute Toxicity

EDD required?
 Yes No

EDF required?
 Yes No

Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Container Info			Cont. Qty.	Remarks
		Date	Time			Type/Vol.	Filter	Preserv.		
Pond 17 Composite		12/20	1050	Water	-	2.5gal poly cube	No	No	4	4 cubes

Relinquished by: (signature) [Signature]
Relinquished by: (signature) [Signature]
Relinquished by: (signature) Linder

Received by: (signature) [Signature]
Received by: (signature) [Signature]
Received by: (signature) [Signature]

Date/Time: 12/20 1230
Date/Time: 12-20-13 1350
Date/Time: 12-20-13 1820

SEND RESULTS TO:
Attn: George Wegmann
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

13 January 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13L1623

Enclosed are the results of analyses for samples received by the laboratory on 12/28/13 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
01/13/14 16:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Eff M-002	13L1623-01	Water	12/27/13 11:10	12/28/13 09:30
Pond 9 Up R-001B	13L1623-02	Water	12/27/13 11:20	12/28/13 09:30
Pond 9 DN R-002B	13L1623-03	Water	12/27/13 11:30	12/28/13 09:30
Pond 17 Eff M-004	13L1623-04	Water	12/27/13 12:15	12/28/13 09:30
Pond 17 DN R-002B	13L1623-05	Water	12/27/13 12:30	12/28/13 09:30

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

01/13/14 16:29

**Conventional Chemistry Parameters by APHA/EPA Methods
 Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 Eff M-002 (13L1623-01) Water Sampled: 12/27/13 11:10 Received: 12/28/13 09:30											
Total Dissolved Solids	1300	5.0	10		mg/l	1	AL33060	12/30/13 14:30	01/06/14 09:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AL33036	12/28/13 13:00	12/28/13 17:00	SM2540F	U
Pond 9 Up R-001B (13L1623-02) Water Sampled: 12/27/13 11:20 Received: 12/28/13 09:30											
Total Dissolved Solids	1600	5.0	10		mg/l	1	AL33060	12/30/13 14:30	01/06/14 09:00	SM2540C	
Pond 9 DN R-002B (13L1623-03) Water Sampled: 12/27/13 11:30 Received: 12/28/13 09:30											
Total Dissolved Solids	1300	5.0	10		mg/l	1	AL33060	12/30/13 14:30	01/06/14 09:00	SM2540C	
Pond 17 Eff M-004 (13L1623-04) Water Sampled: 12/27/13 12:15 Received: 12/28/13 09:30											
Total Dissolved Solids	1500	5.0	10		mg/l	1	AL33060	12/30/13 14:30	01/06/14 09:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10		ml/l	"	AL33036	12/28/13 13:00	12/28/13 17:00	SM2540F	U
Pond 17 DN R-002B (13L1623-05) Water Sampled: 12/27/13 12:30 Received: 12/28/13 09:30											
Total Dissolved Solids	1400	5.0	10		mg/l	1	AL33060	12/30/13 14:30	01/06/14 09:00	SM2540C	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
 Dallas TX, 75266-0140
 PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
 Project: Lehigh S & G Permit
 Project Number: 063-7109-914

Reported:
 01/13/14 16:29

Anions by EPA Method 300.0
Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 Eff M-002 (13L1623-01) Water Sampled: 12/27/13 11:10 Received: 12/28/13 09:30											
Chloride	87	0.75	12		mg/l	25	AL33066	12/30/13 12:52	12/31/13 03:27	EPA 300.0	
Pond 9 Up R-001B (13L1623-02) Water Sampled: 12/27/13 11:20 Received: 12/28/13 09:30											
Chloride	140	0.75	12		mg/l	25	AL33066	12/30/13 12:52	12/31/13 03:42	EPA 300.0	
Pond 9 DN R-002B (13L1623-03) Water Sampled: 12/27/13 11:30 Received: 12/28/13 09:30											
Chloride	98	0.75	12		mg/l	25	AL33066	12/30/13 12:52	12/31/13 03:57	EPA 300.0	
Pond 17 Eff M-004 (13L1623-04) Water Sampled: 12/27/13 12:15 Received: 12/28/13 09:30											
Chloride	89	0.75	12		mg/l	25	AL33066	12/30/13 12:52	12/31/13 04:12	EPA 300.0	
Pond 17 DN R-002B (13L1623-05) Water Sampled: 12/27/13 12:30 Received: 12/28/13 09:30											
Chloride	99	0.75	12		mg/l	25	AL33066	12/30/13 12:52	12/31/13 04:27	EPA 300.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

01/13/14 16:29

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL33060 - General Preparation

Blank (AL33060-BLK1)

Prepared: 12/30/13 Analyzed: 01/06/14

Total Dissolved Solids	ND	5.0	10	mg/l							U
------------------------	----	-----	----	------	--	--	--	--	--	--	---

Duplicate (AL33060-DUP1)

Source: 13L1583-01

Prepared: 12/30/13 Analyzed: 01/06/14

Total Dissolved Solids	286	5.0	10	mg/l		280			2.12	30	
------------------------	-----	-----	----	------	--	-----	--	--	------	----	--

Duplicate (AL33060-DUP2)

Source: 13L1623-01

Prepared: 12/30/13 Analyzed: 01/06/14

Total Dissolved Solids	1110	5.0	10	mg/l		1330			18.0	30	
------------------------	------	-----	----	------	--	------	--	--	------	----	--



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
01/13/14 16:29

Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL33066 - General Preparation

Blank (AL33066-BLK1)

Prepared & Analyzed: 12/30/13

Chloride	0.0690	0.030	0.50	mg/l							J
----------	--------	-------	------	------	--	--	--	--	--	--	---

LCS (AL33066-BS1)

Prepared: 12/30/13 Analyzed: 12/31/13

Chloride	10.3	0.030	0.50	mg/l	10.0		103	90-110			
----------	------	-------	------	------	------	--	-----	--------	--	--	--

Duplicate (AL33066-DUP1)

Source: 13L1688-02

Prepared: 12/30/13 Analyzed: 12/31/13

Chloride	10.1	0.030	0.50	mg/l		10.1			0.287	20	
----------	------	-------	------	------	--	------	--	--	-------	----	--

Matrix Spike (AL33066-MS1)

Source: 13L1688-02

Prepared: 12/30/13 Analyzed: 12/31/13

Chloride	20.7	0.15	2.5	mg/l	11.1	10.1	95.4	80-120			
----------	------	------	-----	------	------	------	------	--------	--	--	--

Matrix Spike Dup (AL33066-MSD1)

Source: 13L1688-02

Prepared: 12/30/13 Analyzed: 12/31/13

Chloride	20.7	0.15	2.5	mg/l	11.1	10.1	95.5	80-120	0.0537	20	
----------	------	------	-----	------	------	------	------	--------	--------	----	--

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
01/13/14 16:29

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- U Analyte included in analysis, but not detected at or above MDL.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



Golder Associates CHAIN OF CUSTODY

Page 1 of 1
Quotation No. Invoice Lehigh

13L1023

PROJECT NO.:		SITE NAME:		ANALYSES		EDD required?				
<u>063-7109-914</u>		<u>Lehigh St & G permit</u>		TOS, Chloride SS, TOS, Chloride		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
SAMPLER(S): <u>David Walter (printed)</u> <u>David C. Walt</u> (signature)		CONTAINER INFO: <u>Alpha</u> <u>Standard</u>				EDF required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Sample I.D.	Lab I.D.	Collection		Matrix	Depth	Type/Vol.	Filter	Preserv.	Cont. Qty.	Remarks
		Date	Time							
<u>Pond 9 Eff M-002</u>		<u>12-27-13</u>	<u>1110</u>	<u>W</u>		<u>1</u>	<u>N</u>	<u>-</u>	<u>1</u>	
<u>Pond 9 4P R-001B</u>			<u>1130</u>			<u>1</u>	<u>N</u>	<u>-</u>	<u>1</u>	
<u>Pond 9 DN R-002B</u>			<u>1130</u>			<u>1</u>	<u>N</u>	<u>-</u>	<u>1</u>	
<u>Pond 17 Eff M-004</u>			<u>1215</u>			<u>1</u>	<u>N</u>	<u>-</u>	<u>1</u>	
<u>Pond 17 DN R-003B</u>			<u>1230</u>			<u>1</u>	<u>N</u>	<u>-</u>	<u>1</u>	
Relinquished by: (signature) <u>David C. Walt</u>		Received by: (signature) David C. Walt		Date/Time: <u>12-27-13 15:45</u>		SEND RESULTS TO: Attn: <u>George Wegmann, Greg Knapp, Chow Yip</u> Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224				
Relinquished by: (signature)		Received by: (signature)		Date/Time: <u>12-28-13 9:30</u>						
Relinquished by: (signature)		Received by: (signature)		Date/Time:						

Shipped Fed Ex - Saturday delivery

white: lab copy yellow: project file



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

13 January 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 13L1635

Enclosed are the results of analyses for samples received by the laboratory on 12/28/13 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

01/13/14 13:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Composite	13L1635-01	Water	12/27/13 11:40	12/28/13 09:30
Pond 17 Composite	13L1635-02	Water	12/27/13 12:05	12/28/13 09:30



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

01/13/14 13:18

**Conventional Chemistry Parameters by APHA/EPA Methods
Alpha Analytical Laboratories, Inc.**

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit								
Pond 9 Composite (13L1635-01) Water Sampled: 12/27/13 11:40 Received: 12/28/13 09:30											
Total Suspended Solids	0.60	0.30	0.50		mg/l	1	AL33063	12/30/13 15:39	01/03/14 14:42	SM2540D	
Pond 17 Composite (13L1635-02) Water Sampled: 12/27/13 12:05 Received: 12/28/13 09:30											
Total Suspended Solids	2.6	0.30	0.50		mg/l	1	AL33063	12/30/13 15:39	01/03/14 14:42	SM2540D	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported:

01/13/14 13:18

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AL33063 - General Preparation

Blank (AL33063-BLK1)

Prepared: 12/30/13 Analyzed: 01/03/14

Total Suspended Solids	ND	0.30	0.50	mg/l							U
------------------------	----	------	------	------	--	--	--	--	--	--	---

Duplicate (AL33063-DUP1)

Source: 13L1597-01

Prepared: 12/30/13 Analyzed: 01/03/14

Total Suspended Solids	5600	0.30	0.50	mg/l		6350			12.6	30	
------------------------	------	------	------	------	--	------	--	--	------	----	--

Duplicate (AL33063-DUP2)

Source: 13L1599-01

Prepared: 12/30/13 Analyzed: 01/03/14

Total Suspended Solids	160	0.30	0.50	mg/l		170			6.06	30	
------------------------	-----	------	------	------	--	-----	--	--	------	----	--



alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company
Dallas TX, 75266-0140
PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip
Project: Lehigh S & G Permit
Project Number: 063-7109-914

Reported:
01/13/14 13:18

Notes and Definitions

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

13L1635



Sheri Speaks <speaks78@gmail.com>

Fw: FedEx Shipment 797516866309 Delivered

1 message

Robbie Phillips (Alpha Labs) <robbie@alpha-labs.com>
To: Sheri Speaks <speaks78@gmail.com>

Mon, Dec 30, 2013 at 8:17 AM

Hello Sheri,

Please add \$150 shipping charge to Lehigh's work order that came in on Saturday through FedEx.

Thanks for your help.

Robbie C. Phillips
650-464-3237

Begin forwarded message:

From: trackingupdates@fedex.com
Date: December 28, 2013, 9:34:06 PST
To: robbie@alpha-labs.com
Subject: FedEx Shipment 797516866309 Delivered
Reply-To: trackingmail@fedex.com

This tracking update has been requested by:

Company Name: Golder Associates Inc.
Name: David Walter
E-mail: dwalter@golder.com

Our records indicate that the following shipment has been delivered:

Reference: 063-7109-914
Ship (P/U) date: Dec 27, 2013
Delivery date: Dec 28, 2013 9:33 AM
Sign for by: Z. HOPPER
Delivery location: UKIAH, CA
Delivered to: FedEx Location
Service type: FedEx Priority Overnight
Packaging type: Your Packaging
Number of pieces: 1
Weight: 40.00 lb.
Special handling/Services: Saturday Hold at location
Tracking number: 797516866309

Shipper Information
David Walter

Recipient Information
Alpha Labs Sample Receiving

13L1630

Golder Associates Inc.
425 Lakeside Drive
Sunnyvale
CA
US
94085

Alpha Labs
208 MASON ST
UKIAH
CA
US
95482

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 11:34 AM CST on 12/28/2013.

To learn more about FedEx Express, please visit our website at fedex.com.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above, or visit us at fedex.com.

This tracking update has been sent to you by FedEx on the behalf of the Requestor noted above. FedEx does not validate the authenticity of the requestor and does not validate, guarantee or warrant the authenticity of the request, the requestor's message, or the accuracy of this tracking update. For tracking results and fedex.com's terms of use, go to fedex.com.

Thank you for your business.